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~~Mixed effects models with R~~ R -

Multilevel Models Lecture (Updated)

Linear mixed effects models Building

generalized linear models with the nlme

package Multilevel modeling in R using

lme4 package (Feb 2020): Demo of Hox

2010 Chapter 2 extended example

Multilevel modeling (two-levels) in R

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with 'lme4' package (May, 2019)

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Longitudinal Multilevel Modeling in R  
Studio (PART 1) Statistics with R (4) -  
Understanding contrasts and the model  
summary in R R Course: Lesson 6, Part 1  
R - Multilevel Model Example Doing  
Mixed Models in R Installing Packages in  
R Studio Mixed Models, Hierarchical

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Linear Models, and Multilevel Models: A  
simple explanation ~~Books with My  
Boyfriend #1 | What we are reading right  
now |~~

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HOW MANY OF MY BOOKS  
HAVEN'T I READ? Random Intercept  
Multi-Level Models

---

Lecture 9.3 Analyzing a Generalized

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Linear Mixed ModelSequel Wishlist!

Reading the 5 highest rated books on my  
shelves | BookRoast [CC] ~~19 Mini Book  
Reviews!! | August Wrapup~~

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R Tutorial: Nonlinear Modeling in R with  
GAMs | Intro~~2. What Are Mixed Models?~~  
Repeated Measures ANOVA in R || lme4  
Introduction to Population Modeling using

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NLME ~~Logistic Regression in R, Clearly Explained!!!!~~ Learn R Multilevel Models  
Lecture Every Book I've Read in 2020 /  
Mid Year Wrap Up (cc) Personalised  
Book Recommendations | Christmas Book  
Gift ideas | Multilevel models Anti-TBR  
Tag: Books I Won't Read! ~~R-Nlme  
Package~~



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nlme.nlsList: NLME fit from nlsList  
Object: glsControl: Control Values for gls  
Fit: gsummary: Summarize by Groups:  
corCAR1: Continuous AR(1) Correlation  
Structure: lmList.groupedData: lmList Fit  
from a groupedData Object: logDet:  
Extract the Logarithm of the Determinant:  
lmeStruct: Linear Mixed-Effects Structure:

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nlmeControl: Control Values for ...

~~nlme package | R Documentation~~

Package [nlme] May 24, 2020 Version

3.1-148 Date 2020-05-13 Priority

recommended Title Linear and Nonlinear

Mixed Effects Models Contact see

'MailingList' Description Fit and compare

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Gaussian linear and nonlinear mixed-effects models. Depends R ( $\geq 3.4.0$ )  
Imports graphics, stats, utils, lattice  
Suggests Hmisc, MASS LazyData yes  
ByteCompile yes

~~Package `nlme` [cran.r-project.org](http://cran.r-project.org)~~  
nlme.nlsList: NLME fit from nlsList

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Object: gnls: Fit Nonlinear Model Using  
Generalized Least Squares:

pairs.compareFits: Pairs Plot of

compareFits Object: getGroups: Extract  
Grouping Factors from an Object:

groupedData: Construct a groupedData

Object: pdMat: Positive-Definite Matrix:

lmeControl: Specifying Control Values for

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lme Fit: lmeObject ...

~~nlme package | R Documentation~~

Version: 3.1-150: Priority: recommended:

Depends: R (≥ 3.4.0) Imports: graphics,  
stats, utils, lattice Suggests: Hmisc,

MASS: Published: 2020-10-24: Author:  
José ...

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~~CRAN Package nlme~~

Jiang Qi NLME package in R.

Introduction to Hierarchical Data Theory

Real Example. The problem. Grouped data, or Hierarchical data: correlations

between subunits within subjects. It arises in many areas as diverse as agriculture,

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biology, economics, manufacturing, and geophysics.

~~NLME package in R~~ □□□□

a nonlinear model formula, with the response on the left of a ~ operator and an expression involving parameters and covariates on the right, or an nlsList

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object. If data is given, all names used in the formula should be defined as parameters or variables in the data frame. The method function `nlme.nlsList` is documented separately.

~~nlme function | R Documentation~~

We use the `nlme` package here. While this



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functionality does exist in lme4, the nonlinear syntax was always a bit unintuitive for me. What we are doing is telling the model that each of the parameters is sampled from a normal distribution across individuals. In this way, the model can pull unlikely parameter values back towards the mean of the ...

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~~Nonlinear Modelling using nls, nlme and  
brms | R bloggers~~

Linear Mixed-Effects Models This generic function fits a linear mixed-effects model in the formulation described in Laird and Ware (1982) but allowing for nested random effects. The within-group errors

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are allowed to be correlated and/or have unequal variances. The methods `lme.lmList` and `lme.groupedData` are documented separately.

~~lme function | R Documentation~~

Package `nlme` February 6, 2017 Version  
3.1-131 Date 2017-02-06 Priority

# Read Book R Nlme Package Wordpress

recommended Title Linear and Nonlinear  
Mixed Effects Models Description Fit and  
compare Gaussian linear and nonlinear  
mixed-effects models. Depends R ( $\geq$   
3.0.2) Imports graphics, stats, utils, lattice  
Suggests Hmisc, MASS LazyData yes  
ByteCompile yes Encoding UTF-8

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## ~~Package `nlme`~~

The `nlme` package is fully described in Pinheiro and Bates (2000). Of course, the `asreml` package can be used, but, unfortunately, this is not freeware. Coding mixed models in `nlme` is not always easy, especially when we have crossed random effects, which is very common

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with agricultural experiments.

~~Fitting 'complex' mixed models with  
'nlme'. Example #1 | R ...~~

Package [lme4]. Package [lme4].

December 1, 2020. Version 1.1-26 Title  
Linear Mixed-Effects Models using 'Eigen'  
and S4 Contact LME4 Authors

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`<lme4-authors@lists.r-forge.r-project.org>`

Description Fit linear and generalized linear mixed-effects models. The models and their components are represented using S4 classes and methods. The core computational algorithms are implemented using the 'Eigen' C++ library for numerical linear algebra and 'RcppEigen' ``glue".

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~~Package nlme4 R~~

R package version 3.1-150, <https://CRAN.R-project.org/package=nlme>.

Corresponding BibTeX entry: @Manual{, title = {{nlme}: Linear and Nonlinear Mixed Effects Models}, author = {Jose Pinheiro and Douglas Bates and Saikat



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```
DebRoy and Deepayan Sarkar and {R  
Core Team}}, year = {2020}, note = {R  
package version 3.1-150}, url = {https://C  
RAN.R-project.org/package=nlme}, }
```

~~nlme citation info cran.r project.org~~

an object of class nlme representing the  
nonlinear mixed-effects model fit. Generic

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functions such as `print`, `plot` and `summary` have methods to show the results of the fit. See `nlmeObject` for the components of the fit. The functions `resid`, `coef`, `fitted`, `fixed.effects`, and `random.effects` can be used to extract some of its components.

~~nlme: Nonlinear Mixed Effects Models in~~

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~~nlme: Linear and ...~~

```
# 8.2 Fitting Nonlinear Mixed-Effects  
Models with nlme ## no need to specify  
groups, as Orange is a groupedData object  
## random is omitted - by default it is  
equal to fixed (fm1Oran.nlme <- nlme  
(circumference ~ SSlogis (age, Asym,  
xmid, scal), data = Orange, fixed = Asym
```

# Read Book R Nlme Package Wordpress

+ xmid + scal ~ 1, start = fixef  
(fm1Oran.lis)))

~~nlme: R scripts - AsanCPT~~

gls {nlme} R Documentation: Fit Linear  
Model Using Generalized Least Squares  
Description. This function fits a linear  
model using generalized least squares. The

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errors are allowed to be correlated and/or have unequal variances. Usage ... [Package nlme version 3.1-150 Index] ...

~~R: Fit Linear Model Using Generalized Least Squares~~

R/nlme.R defines the following functions:  
nonlinModel residuals.nlmeStruct

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fitted.nlmeStruct predict.nlme  
formula.nlme getParsNlme nlme.formula  
nlme.nlsList nlme nlme source: R/nlme.R  
rdr.io Find an R package R language docs  
Run R in your browser R Notebooks

~~nlme source: R/nlme.R R Package  
Documentation~~

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R-packages - Revision 7898: /trunk/nlme..  
ChangeLog; DESCRIPTION; LICENCE;  
NAMESPACE; R/ README; TODO;  
data/ inst/ man/ po/ src/ tests/

~~R packages - Revision 7898: /trunk/nlme~~  
nlme. This is a read-only mirror of the  
CRAN R package repository. nlme ☐

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Linear and Nonlinear Mixed Effects

Models Report bugs for this package:

<http://bugs.r-project.org>. View license.

~~GitHub [cran/nlme](#): This is a read only  
mirror of the CRAN ...~~

tistical analyses were performed using R  
statistical language (6) and the packages



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fields (7), nlme (8), and lme4 (9). i)  
Regarding estimation of time origin, for each plasma donor panel, longitudinal series were normalized to a time origin,  $T_0$ , estimated as described previously (2). Briefly,  $T_0$  was

~~Supporting Information~~

*Page 33/35*

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Search 15 million Welsh newspaper articles. Nid yw statws neu berchnogaeth hawlfraint yr adnodd hwn yn hysbys (delweddau ar gyfer 1869-1900 gyda diolch i'r Llyfrgell Brydeinig).

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