

MODEL INFO:

Observations: 2000

Dependent Variable: popular

Type: Mixed effects linear regression

MODEL FIT:

AIC = 4765.6343, BIC = 4816.0324

Pseudo-R² (fixed effects) = 0.3535

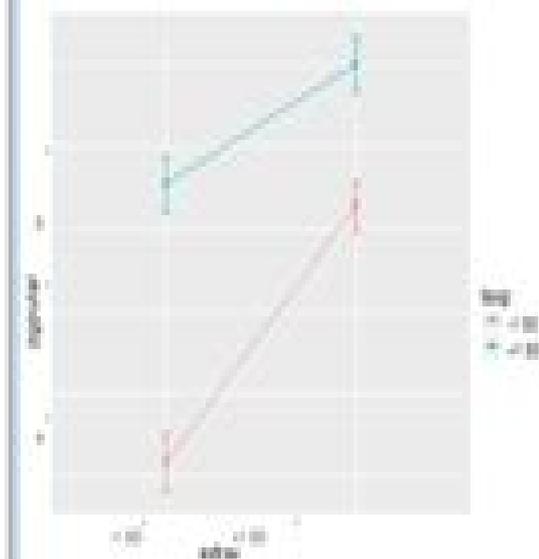
Pseudo-R² (total) = 0.7062

FIXED EFFECTS:

	Est.	S.E.	t val.	d.f.	p
(Intercept)	-1.2070	0.2690	-4.4876	111.5755	0.0000
sex	1.2406	0.0362	34.2681	1944.9935	0.0000
extrav	0.8031	0.0395	20.3114	72.3143	0.0000
tecp	0.2260	0.0166	13.6023	100.2847	0.0000
extrav:tecp	-0.0247	0.0025	-9.8078	72.2372	0.0000

p values calculated using Satterthwaite d.f.

Figure 1: Regression Lines (A175)



Multilevel Modeling In R Using The Nlme Package

J Elliott



Multilevel Modeling In R Using The Nlme Package:

Multilevel Modeling Using R William Holmes Finch, 2024 Like its bestselling predecessor *Multilevel Modeling Using R* Third Edition provides the reader with a helpful guide to conducting multilevel data modeling using the R software environment After reviewing standard linear models the authors present the basics of multilevel models and explain how to fit these models using R They then show how to employ multilevel modeling with longitudinal data and demonstrate the valuable graphical options in R The book also describes models for categorical dependent variables in both single level and multilevel data The third edition of the book includes several new topics that were not present in the second edition Specifically a new chapter has been included focussing on fitting multilevel latent variable modeling in the R environment With R it is possible to fit a variety of latent variable models in the multilevel context including factor analysis structural models item response theory and latent class models The third edition also includes new sections in chapter 11 describing two useful alternatives to standard multilevel models fixed effects models and generalized estimating equations These approaches are particularly useful with small samples and when the researcher is interested in modeling the correlation structure within higher level units e g schools The third edition also includes a new section on mediation modeling in the multilevel context in chapter 11 This thoroughly updated revision gives the reader state of the art tools to launch their own investigations in multilevel modeling and gain insight into their research

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Journal of Database Administration, 2007 *Measuring and Analyzing Behavior in Organizations* Fritz Drasgow, 2002 This title brings together advances in measurement and data analysis and discusses the range of problems that can be addressed with these approaches. It examines most important areas of measurement applied statistics research methods and data analysis.

The Leadership Quarterly, 2002 **Journal of Personality**, 2003 **Canadian Journal of Forest Research**, 2016-04 □□□□□□, 2008 **Journal of Official Statistics**, 2012 **The American Naturalist**, 2006 **Forest Science**, 2016

Statistical Regression Modeling with R Ding-Geng (Din) Chen, Jenny K. Chen, 2021-04-08 This book provides a concise point of reference for the most commonly used regression methods. It begins with linear and nonlinear regression for normally distributed data, logistic regression for binomially distributed data and Poisson regression and negative binomial regression for count data. It then progresses to these regression models that work with longitudinal and multi level data structures. The volume is designed to guide the transition from classical to more advanced regression modeling as well as to contribute to the rapid development of statistics and data science. With data and computing programs available to facilitate readers learning experience. *Statistical Regression Modeling* promotes the applications of R in linear nonlinear longitudinal and multi level regression. All included datasets as well as the associated R program in packages nlme and lme4 for multi level regression are detailed in Appendix A. This book will be valuable in graduate courses on applied regression as well as for practitioners and researchers in the fields of data science, statistical analytics, public health and related fields.

Survey Methodology, 2011 **Mixed-Effects Models in S and S-PLUS** José C. Pinheiro, Douglas Bates, 2009-04-15 *R linear models random fixed data analysis fit* *Multilevel Modeling Using R* W. Holmes Finch, Jocelyn E. Bolin, 2024-04-05 Like its bestselling predecessor *Multilevel Modeling Using R* Third Edition provides the reader with a helpful guide to conducting multilevel data modeling using the R software environment. After reviewing standard linear models the authors present the basics of multilevel models and explain how to fit these models using R. They then show how to employ multilevel modeling with longitudinal data and demonstrate the valuable graphical options in R. The book also describes models for categorical dependent variables in both single level and multilevel data. The third edition of the book includes several new topics that were not present in the second edition. Specifically a new chapter

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Multilevel Modeling Douglas A. Luke, 2019-12-13 Multilevel Modeling is a concise practical guide to building models for multilevel and longitudinal data Author Douglas A Luke begins by providing a rationale for multilevel models outlines the basic approach to estimating and evaluating a two level model discusses the major extensions to mixed effects models and provides advice for where to go for instruction in more advanced techniques Rich with examples the Second Edition expands coverage of longitudinal methods diagnostic procedures models of counts Poisson power analysis cross classified models and adds a new section added on presenting modeling results A website for the book includes the data and the statistical code both R and Stata used for all of the presented analyses

Multilevel Analysis Tom A B Snijders, Roel J Bosker, 2011-10-30 The Second Edition of this classic text introduces the main methods techniques and issues involved in carrying out multilevel modeling and analysis Snijders and Bosker s book is an applied authoritative and accessible introduction to the topic providing readers with a clear conceptual and practical understanding of all the main issues involved in designing multilevel studies and conducting multilevel analysis This book provides step by step coverage of multilevel theories ecological fallacies the hierarchical linear model testing and model specification heteroscedasticity study designs longitudinal data multivariate multilevel models discrete dependent variables There are also new chapters on missing data multilevel modeling and survey weights Bayesian and MCMC estimation and latent class models This book has been comprehensively revised and updated since the last edition and now discusses modeling using HLM MLwiN SAS Stata including GLLAMM R SPSS Mplus WinBugs Latent Gold and SuperMix This is a must have text for any student teacher or researcher with an interest in conducting or understanding multilevel analysis Tom A B Snijders is Professor of Statistics in the Social Sciences at the University of Oxford and Professor of Statistics and Methodology at the University of Groningen Roel J Bosker is Professor of Education and Director of GION Groningen Institute for Educational Research at the University of Groningen

Generalized Linear Mixed-Effects Models in R., 2003 The Nonlinear and Linear Mixed Effects NLME package for the open source statistical software system R provides an effective and efficient way to analyze longitudinal data collected from nested groups of subjects when the response of interest is on a continuous scale It does not provide methods for analyzing binary multinomial or ordinal responses where a general linear mixed effects model

GLMM is required We enhanced an existing R implementation for estimating a GLMM which can estimate an approximate model using a crude numerical procedure The R code was rewritten to take advantage of the best available numerical methods and the latest theoretical developments Using simulated data sets we demonstrate that the enhanced code is much faster and numerically robust We propose an approach for modeling ordinal and multinomial data the theory of which is less well developed than that of binomial data The proposed approach is demonstrated using simulated and real data sets The results illustrate the limits of the approximate procedure used in Phase I which motivates the use of a more refined numerical method in Phase II

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