

MODEL INFO:

Observations: 2000

Dependent Variable: popular

Type: Mixed effects linear regression

MODEL FIT:

AIC = 4765.6243, BIC = 4816.0324

Pseudo-R² (fixed effects) = 0.3535

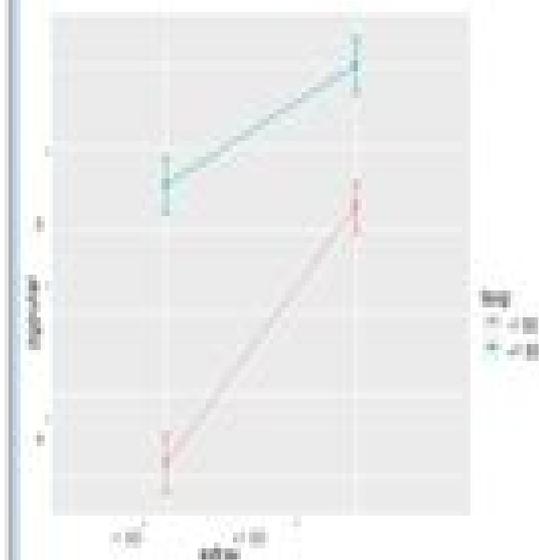
Pseudo-R² (total) = 0.7062

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 (A/TM)



Multilevel Modeling In R Using The Nlme Package

Yicheng Fang



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

Design and Analysis for Quantitative Research in Music Education Peter Miksza, Kenneth Elpus, 2018 In recent years academics and professionals in the social sciences have forged significant advances in quantitative research methodologies specific to their respective disciplines Although new and sophisticated techniques for large scale data analyses have become commonplace in general educational psychological sociological and econometric fields many researchers in music education have yet to be exposed to such techniques *Design and Analysis of Quantitative Research in Music Education* is a comprehensive reference for those involved with research in music education and related fields providing a foundational understanding of quantitative inquiry methods Authors Peter Miksza and Kenneth Elpus update and expand the set of resources that music researchers have at their disposal for conceptualizing and analyzing data pertaining to music related phenomena This text is designed to familiarize readers with foundational issues of quantitative inquiry as a point of view introduce and elaborate upon issues of fundamental quantitative research design and analysis and expose researchers to new innovative and exciting methods for dealing with complex research questions and analyzing large samples of data in a rigorous and thorough manner With this resource researchers will be better equipped for dealing with the challenges of the increasingly information rich and data driven environment surrounding music education An accompanying companion website provides valuable supplementary exercises and videos

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Underlying Reward and Emotions in Social Settings Anna-Lena Zietlow, Martin Fungisai Gerchen, Monika Eckstein, Jonathan Levy, 2021-03-12 *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 **Mixed-Effects Models in S and S-PLUS** José C. Pinheiro, Douglas Bates, 2009-04-15 R linear models random fixed data analysis fit **Survey Methodology** ,2011 **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

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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

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