

Comparing a Multiple Regression Model Across Criterion Variables

Sometimes we have multiple behaviors or responses that might be used as criterion variables. When this happens we might want to determine whether the models to predict the different criterion differ. This can be a useful way of determining whether or not behaviors or responses represent "the same thing".

For example we might have two different criteria by which we assess the "performance" of 1st year graduate students: 1) their grades and 2) the number of presentations and/or publications they obtain or collaborate on during their first year. Are the multiple regression models for predicting these two from GRE scores "the same"?

First we get the multiple regression model for each criterion, in turn. Here's the abbreviated output ...

For GPA as the criterion

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.752 ^a	.572	.563	.22152

a. Predictors: (Constant), Verbal subscore of GRE, Quantitative subscore of GRE, Analytic subscore of GRE

Coefficients^a

Model		Unstand	Stand	Sig.
		ardized	ardize	
		B	Beta	
1	(Constant)	-1.215		.003
	Analytic subscore of GRE	6.78E-03	.501	.000
	Quantitative subscore of GRE	3.42E-03	.462	.000
	Verbal subscore of GRE	-2.3E-03	-.235	.001

a. Dependent Variable: 1st year graduate gpa -- criterion variable

For #pubs & presentations as the criterion

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.817 ^a	.642	.638	.24176

a. Predictors: (Constant), Verbal subscore of GRE, Quantitative subscore of GRE, Analytic subscore of GRE

Coefficients^a

Model		Unstand	Stand	Sig.
		ardize	ardize	
		B	Beta	
1	(Constant)	7.706		.000
	Analytic subscore of GRE	1.1E-04	.009	.827
	Quantitative subscore of GRE	4.0E-04	.058	.152
	Verbal subscore of GRE	8.6E-03	.893	.000

a. Dependent Variable: PUBPRES

Inspection of the β weights of the two models suggests that:

- The fit of the two models to the criteria appears to be different -- $R^2 = .572$ for GPA, and $.642$ for publications/presentations.
- There is no direct test of these correlations -- can't use Fisher's Z-test because the models are from the same sample & can't use Hotelling's/Meng, etc. tests because both the criterion and the predictors producing the R values are different.
- The models appear to have very different "structures"
- Prediction of 1st year GPA involves all three GRE subscales (with somewhat less contribution from the suppressor variable GREV)
- Prediction of 1st year #publications/presentations involves only GREV, in this sample.
- To formally compare these models we will need to ...
- Apply both models to the prediction of a single criterion (we'll use GPA)
- Compare the R obtained from these applications, taking the correlation between the models into account

Comparing A Multiple Regression Model Across Groups

JS Bruner



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Multiple Regression and Beyond Timothy Z. Keith, 2019-01-14 Companion Website materials <https://tzkeith.com> *Multiple Regression and Beyond* offers a conceptually oriented introduction to multiple regression MR analysis and structural equation modeling SEM along with analyses that flow naturally from those methods By focusing on the concepts and purposes of MR and related methods rather than the derivation and calculation of formulae this book introduces material to students more clearly and in a less threatening way In addition to illuminating content necessary for coursework the accessibility of this approach means students are more likely to be able to conduct research using MR or SEM and more likely to use the methods wisely This book Covers both MR and SEM while explaining their relevance to one another Includes path analysis confirmatory factor analysis and latent growth modeling Makes extensive use of real world research examples in the chapters and in the end of chapter exercises Extensive use of figures and tables providing examples and illustrating key concepts and techniques New to this edition New chapter on mediation moderation and common cause New chapter on the analysis of interactions with latent variables and multilevel SEM Expanded coverage of advanced SEM techniques in chapters 18 through 22 International case studies and examples Updated instructor and student online resources

Generalizing the Regression Model Blair Wheaton, Marisa Young, 2021-01-22 This comprehensive text introduces regression the general linear model structural equation modeling the hierarchical linear model growth curve models panel data and event history models and includes discussion of published implementations of each technique showing how it was used to address substantive and interesting research questions It takes a step by step approach in the presentation of each topic using mathematical derivations where necessary but primarily emphasizing how the methods involved can be implemented are used in addressing representative substantive problems than span a number of disciplines and can be interpreted in words The book demonstrates the analyses in STATA and SAS *Generalizing the Regression Model* provides students with a bridge from the classroom to actual research practice and application

Statistical Methods for Communication Science Andrew F. Hayes, 2020-10-14 *Statistical Methods for Communication Science* is the only statistical methods volume currently available that focuses exclusively on statistics in communication research Writing in a straightforward personal style author Andrew F Hayes offers this accessible and thorough introduction to statistical methods starting with the fundamentals of measurement and moving on to discuss such key topics as sampling procedures probability reliability hypothesis testing simple correlation and regression and analyses of variance and covariance Hayes takes readers through each topic with clear explanations and illustrations He provides a multitude of examples all set in the context of communication research thus engaging readers directly and helping them to see the relevance and importance of statistics to the field of communication Highlights of this text include thorough and balanced coverage of topics integration of classical methods with modern resampling approaches to inference consideration of practical real world issues numerous examples

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Geometric Morphometrics for Biologists Miriam

Zelditch, Donald Swiderski, 2015-11-17 Geometric Morphometrics for Biologists A Primer Third Edition explores how these geometric methods allow for the study of biological shape by incorporating the geometry of organisms throughout data analyses Novel content on phylogenetic comparative methods evolutionary morphology analyses of disparity genetics of shape and simulating shape data is included This edition delivers step by step guidance on how to effectively utilize updated analytical software while also providing guidance on important methodologies that remain relevant to the field to ensure clear and effective instruction to audiences new to this branch of data analysis It succeeds the second edition as the primary resource for teaching modern geometric methods of shape analysis to students researchers and practicing scientists in the field of organismal biology Users will find it to be an immensely valuable introduction for students and practicing biologists interested in learning applications of multivariate statistics and matrix algebra to organismal biology Introduces geometric morphometric analyses to researchers and students of organismal biology Presents updated coverage of emerging methods Provides detailed instructions for conducting analyses with free easy to use software Delivers graphical presentations of key concepts and demonstrations of alternative modeling approaches

Applied Statistics II Rebecca M. Warner, 2020-01-14

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Multiple Regression in Behavioral Research Elazar J. Pedhazur, 1997 This text adopts a data analysis approach to multiple regression The author integrates design and analysis and emphasises learning by example and critiquing published research

Handbook of Nutrition and Food Carolyn D. Berdanier, Johanna T. Dwyer, Elaine B. Feldman, 2007-08-24 Significantly revised and updated this second edition of the bestselling Handbook of Nutrition and Food welcomes contributions from several new authors including Elaine B Feldman and Johanna Dwyer notable leaders in nutritional science Retaining the high level of scientific research accessible language and attention to detail of the original

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