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	.756ª	.572	.563	.39752

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

Coefficientsª

Model		Unstandardized Coefficients B	Standardized Coefficients Beta	Sig.
1	(Constant)	–1.215		.003
	Analytic subscore of GRE	6.78E-03	.551	.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	.917ª	.842	.838	.24176

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

Coefficientsª

Model		Unstandardized Coefficients B	Standardized Coefficients Beta	Sig.
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	8.8E-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 -- R² = .572 for GPA and .842 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

New York State Agricultural Experiment Station

Comparing A Multiple Regression Model Across Groups:

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

and applications all drawn from communication research up to date information with examples justifying use of various techniques and downloadable resources with macros data sets figures and additional materials This unique book can be used as a stand alone classroom text a supplement to traditional research methods texts or a useful reference manual It will be invaluable to students faculty researchers and practitioners in communication and it will serve to advance the understanding and use of statistical methods throughout the discipline **Applied Statistics II** Rebecca M. Warner,2020-01-14 Rebecca M Warner s bestselling Applied Statistics From Bivariate Through Multivariate Techniques has been split into two volumes for ease of use over a two course sequence Applied Statistics II Multivariable and Multivariate Techniques Third Edition is a core multivariate statistics text based on chapters from the second half of the original book The text begins with two new chapters an introduction to the new statistics and a chapter on handling outliers and missing values All chapters on statistical control and multivariable or multivariate analyses from the previous edition are retained with the moderation chapter heavily revised and new chapters have been added on structural equation modeling repeated measures and on additional statistical techniques Each chapter includes a complete example and begins by considering the types of research questions that chapter s technique can answer progresses to data screening and provides screen shots of SPSS menu selections and output and concludes with sample results sections By hand computation is used where possible to show how elements of the output are related to each other and to obtain confidence interval and effect size information when SPSS does not provide this Datasets are available on the accompanying website Bundle and Save Applied Statistics II Applied Statistics I Basic Bivariate Techniques Third Edition Bundle Volume I and II ISBN 978 1 0718 1337 9 An R Companion for Applied Statistics II Multivariable and Multivariate Techniques Applied Statistics II Bundle ISBN 978 1 0718 3618 7

Geometric Morphometrics for Biologists Miriam Zelditch,Donald Swiderski,2025-11-17 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

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A Comparative Study of Some Cluster Analytic Techniques with Application to the Mathematics Achievement in Junior High Schools Jeanette Elaine Lockley,1970   Computational Statistics & Data Analysis ,2002   Annual Report of the Board of Control of the New York Agricultural Experiment Station, (Geneva, Ontario County), ... New York State Agricultural Experiment Station,1921   **Asexual Inheritance in the Violet (Viola Odorata) ...** Roy David Anthony,1920   **Annual Report of the New York Agricultural Experiment Station** New York State Agricultural Experiment Station,1921

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The Top Books of the Year Comparing A Multiple Regression Model Across Groups The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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