Logistic Regression Interaction Terms Alumni

Regression Analysis: Unified Concepts, Practical Applications, Computer Implementation is a concise and innovative book that gives a complete presentation of applied regression analysis in approximately one-half the space of competing books. With only the modest prerequisite of a basic (non-calculus) statistics course this text is appropriate for the widest possible audience including college juniors, seniors and first-year graduate students in business and statistics, as well as professionals in business and industry. The book is able to accommodate this wide audience because of the unique, integrative approach that is taken to the teaching of regression analysis. Whereas other regression books cover regression in four chapters, beginning with a statistical review, followed by chapters on simple linear regression, matrix algebra and multiple regression, this book introduces regression and covers both simple linear regression and multiple regression in single cohesive chapter. This is made possible through an efficient, integrative discussion of the two techniques. Additionally, in the same chapter (Chapter Two) basic statistical and matrix algebra concepts are introduced as needed In order to facilitate instruction. This approach avoids the needless repetition that is often found in longer treatments of the subject, while serving to bring a collective focus to students of widely varying mathematical backgrounds.

This volume is the fourth in a series designed to facilitate inter-disciplinary communication between scientists concerned with the description of societal phenomena and those investigating adult development. As such, it contains a compilation of papers presented at an annual conference held at the Pennsylvania State University. These essays by sociologists and epidemiologists deal with the impact of disease and health outcomes with advancing age and are critiqued by members of related disciplines. In addition, there are overviews as well as specific discussions about the impact of cancer, depression, and cardiovascular diseases upon psychosocial functions.

Publisher Description

The Handbook series provides a compendium of thorough and integrative literature reviews on a diverse array of topics of interest to the higher education scholarly and policy communities. Each chapter provides a comprehensive review of research findings on a selected topic, critiques the research literature in terms of its conceptual and methodological rigor, and sets forth an agenda for future research intended to advance knowledge on the chosen topic.

Towards a Science of Change

Public Health Reports

An Introduction to Statistical Concepts

Best Practices and Modern Methods

Best Practices in Logistic Regression

Applied Multivariate Statistical Concepts

With broad appeal across scholars and graduate students in the social and behavioral sciences, Joslyn presents new ideas for expanding relationship modeling methods in a way that unites relationship

scholars and extends relational theory.
Providing expert advice from established scholars in the field of political science, this engaging
companion book to Teaching Undergraduate Political Methodology imparts informative guidance on teaching
research methods across the graduate curriculum. Written in a concise yet comprehensive style, it
illustrates practical and conceptual advice, alongside more detailed chapters focussing on the different
aspects of teaching political methodology.
More comprehensive than other texts, this new book covers the classic and cutting edge multivariate
techniques used in today's research. Ideal for courses on multivariate statistics/analysis/design,
advanced statistics or quantitative techniques taught in psychology, education, sociology, and business,
the book also appeals to researchers with no training in multivariate methods. Through clear writing and
engaging pedagogy and examples using real data, Hahs-Vaughn walks students through the most used methods
to learn why and how to apply each technique. A conceptual approach with a higher than usual text-to-
formula ratio helps reader's master key concepts so they can implement and interpret results generated
by today's sophisticated software. Annotated screenshots from SPSS and other packages are integrated
throughout. Designed for course flexibility, after the first 4 chapters, instructors can use chapters in
any sequence or combination to fit the needs of their students. Each chapter includes a 'mathematical
snapshot' that highlights the technical components of each procedure, so only the most crucial equations
are included. Highlights include: -Outlines, key concepts, and vignettes related to key concepts preview
what's to come in each chapter -Examples using real data from education, psychology, and other social
sciences illustrate key concepts -Extensive coverage of assumptions including tables, the effects of
their violation, and how to test for each technique -Conceptual, computational, and interpretative
problems mirror the real-world problems students encounter in their studies and careers -A focus on data
screening and power analysis with attention on the special needs of each particular method -Instructions
for using SPSS via screenshots and annotated output along with HLM, Mplus, LISREL, and G*Power where
appropriate, to demonstrate how to interpret results -Templates for writing research questions and APA-
style write-ups of results which serve as models -Propensity score analysis chapter that demonstrates
the use of this increasingly popular technique -A review of matrix algebra for those who want an
introduction (prerequisites include an introduction to factorial ANOVA, ANCOVA, and simple linear
regression, but knowledge of matrix algebra is not assumed) -www.routledge.com/9780415842365 provides
the text's datasets preformatted for use in SPSS and other statistical packages for readers, as well as
answers to all chapter problems, Power Points, and test items for instructors
In this introduction to the different ways of analysing complex survey data, the authors consider new
analytical approaches, review new software and introduce a model-based analysis that can be used for
well-designed and relatively small-scale social surveys.

Measuring Psychosocial Variables in Epidemiologic Studies of Cardiovascular Disease
Quantitative Data Analysis
Gun Laws and the Need for Self-defense
Applied Multivariate Research
Encyclopedia of Measurement and Statistics
Conceptualizing and Modeling Relational Processes in Sociology

Statistical Concepts consists of the last 9 chapters of An Introduction to Statistical Concepts, 3rd ed. Designed for the second course in statistics, it is one of the few texts that focuses just on intermediate statistics. The book highlights how statistics work and what they mean to better prepare students to analyze their own data and interpret SPSS and research results. As such it offers more coverage of non-parametric procedures used when standard assumptions are violated since these methods are more frequently encountered when working with real data. Determining appropriate sample sizes is emphasized throughout. Only crucial equations are included. The new edition features: New co-author, Debbie L. Hahs-Vaughn, the 2007 recipient of the University of Central Florida's College of Education Excellence in Graduate Teaching Award. A new chapter on logistic regression models for today's more complex methodologies. Much more on computing confidence intervals and conducting power analyses using G*Power. All new SPSS version 19 screenshots to help navigate through the program and annotated output to assist in the interpretation of results. Sections on how to write-up statistical results in APA format and new templates for writing research questions. New learning tools including chapter-opening vignettes, outlines, a list of key concepts, "Stop and Think" boxes, and many more examples, tables, and figures. More tables of assumptions and the effects of their violation including how to test them in SPSS. 33% new conceptual, computational, and all new interpretative problems. A website with Power Points, answers to the even-numbered problems, detailed solutions to the odd-numbered problems, and test items for instructors, and for students the chapter outlines, key concepts, and datasets. Each chapter begins with an outline, a list of key concepts, and a research vignette related to the concepts. Realistic examples from education and the behavioral sciences illustrate those concepts. Each example examines the procedures and assumptions and provides tips for how to run SPSS and develop an APA style write-up. Tables of assumptions and the effects of their violation are included, along with how to test assumptions in SPSS. Each chapter includes computational, conceptual, and interpretive problems. Answers to the odd-numbered problems are provided. The SPSS data sets that correspond to the book's examples and problems are available on the web. The book covers basic and advanced analysis of variance models and topics not dealt with in other texts such as robust methods, multiple comparison and non-parametric procedures, and multiple and logistic regression models. Intended for courses in intermediate statistics and/or statistics II taught in education and/or the behavioral sciences, predominantly at the master's or doctoral level. Knowledge of introductory statistics is assumed.

In an atmosphere where the Mexican American population is viewed in terms of immigrant labor, this edited book examines the strong tradition of wealth creation and business creation within this population. In the introduction, readers are presented with enterprises such as Latin Works and Real Links, which represent large, successful, and middle-size

businesses. Chapters span research methods and units of analysis, utilizing archival data, ethnographic data, and the analysis of traditional census data to disaggregate gender and more broadly examine questions of business formation. From the chapters emerges a picture of problems overcome, success, and contemporary difficulties in developing new businesses. Analysis reveals how Mexican American entrepreneurs compare with other ethnic groups as they continue to build their ventures. This work is a refreshing alternative to books that focus on the labor aspects of the Mexican American experience. Contributors reveal the strong history of self-help and entrepreneurship of this population.

Implications for college admissions offices were discussed. Suggestions for future research were indicated.

A clear and concise introduction and reference for anyone new to the subject of statistics.

Introducing Disjointed Fluidity

Moderating Effects of Organisational-embeddedness

Civil Rights Issues Facing Asian Americans in the 1990s

A Second Course

A Practical Introduction

Analyzing Complex Survey Data

To date, much of the empirical work in social epidemiology has demonstrated the existence of health inequalities along a number of axes of social differentiation. However, this research, in isolation, will not inform effective solutions to health inequalities. Rethinking Social Epidemiology provides an expanded vision of social epidemiology as a science of change, one that seeks to better address key questions related to both the causes of social inequalities in health (problem-focused research) as well as the implementation of interventions to alleviate conditions of marginalization and poverty (solution-focused research). This book is ideally suited for emerging and practicing social epidemiologists as well as graduate students and health professionals in related disciplines.

The new edition of An Introduction to Statistical Concepts is designed to help students really understand statistical concepts, the situations in which they can be used, and how to apply them to data. Hahs-Vaughn and Lomax discuss the most popular, along with many of the lesser-known, procedures and models, whilst also exploring nonparametric procedures used when standard assumptions are violated. They provide in-depth coverage of testing assumptions and highlight several online tools for computing statistics (e.g., effect sizes and their confidence intervals and power). This comprehensive, flexible, and accessible text includes a new chapter on mediation and moderation; expanded coverage of effect sizes; and discussions of sensitivity, specificity, false positive, and false negative, along with using the receiver operator characteristic (ROC) curve. This book, noted for its crystal-clear explanations, and its inclusion of only the most crucial equations, is an invaluable resource for students undertaking a course in statistics in any number of social science and behavioral disciplines—from

education, business, communication, exercise science, psychology, sociology and more.
The concepts of epidemiology, the science that uses statistical methods to investigate associations between risk factors and disease outcomes in human populations, are developed using examples involving real data from published studies. The relevant statistical methods are developed systematically to provide an integrated approach to observational and experimental studies. After covering basic measurement, study design, and study credibility issues, the author continues with basic statistical methods and techniques for adjusting risk estimates for confounders. Statistical models including logistic regression and the proportional hazards model for survival analysis are explained in detail in the following chapters, concluding with an explanation of the general methods for determining the sample size and power requirements for an epidemiological study. Taking advantage of the power, accessibility and user-friendliness of modern computer packages, the author uses a variety of interesting data sets and graphical displays to illustrate the methods. Epidemiological Research Methods will be of interest to students and research workers who need to learn and appreciate modern approaches to the subject. Without unnecessary emphasis on mathematics or theory, the book will enable the reader to gain a greater level of understanding of the underlying methods than is normally provided in books on epidemiology.
This volume engages the interface between the development of human lives and social relational networks. It focuses on the integration of two subfields of sociology/social science--the life course and social networks. Research practitioners studying social networks typically focus on social structure or social organization, ignoring the complex lives of the people in those networks. At the same time, life course researchers tend to focus on individual lives without necessarily studying the contexts of social relationships in which lives are embedded and "linked" to one another through social networks. These patterns are changing and this book creates an audience of researchers who will better integrate the two subfields. It covers the role of social networks across the life span, from childhood and adolescence, to midlife, through old age.
American Journal of Public Health
An Introduction to Data Analysis for Social Scientists
Aging, Health Behaviors, and Health Outcomes
Social Networks and the Life Course
Statistical Concepts
Economic Games, (Dis)honesty and Trust
"A report of the United States Commission on Civil Rights."--T.p.
Intermediate Statistical Investigations provides a unified framework for explaining variation across study designs and variable types, helping students increase their statistical literacy and appreciate the indispensable role of statistics in

scientific research. Requiring only a single introductory statistics course as a prerequisite, the program uses the immersive, simulation-based inference approach for which the author team is known.Students engage with various aspects of data collection and analysis using real examples and clear explanations designed to strengthen multivariable understanding and reinforce first-course concepts. Each chapter contains in-depth exercises which follow a consistent six-step statistical exploration and investigation method (ask a research question, design a study, explore the data, draw inferences, formulate conclusions, and look back and ahead) enabling students to assess a variety of concepts in a single assignment. Challenging questions based on research articles strengthen critical reading skills, fully worked examples demonstrate essential concepts and methods, and engaging visualizations illustrate key themes of explained variation. End-of-chapter investigations use real data from popular culture and published research studies in a variety of disciplines, exposing students to various applications of statistics in the real world. Throughout the text, user-friendly Rossman Chance web applets allow students to conduct the simulations and analyses covered in the book.
Causal analytics methods can revolutionize the use of data to make effective decisions by revealing how different choices affect probabilities of various outcomes. This book presents and illustrates models, algorithms, principles, and software for deriving causal models from data and for using them to optimize decisions with uncertain outcomes. It discusses how to describe and summarize situations; detect changes; evaluate effects of policies or interventions; learn what works best under different conditions; predict values of as-yet unobserved quantities from available data; and identify the most likely explanations for observed outcomes, including surprises and anomalies. The book resents practical techniques for causal modeling and analytics that practitioners can apply to improve understanding of how choices affect probabilities of consequences and, based on this understanding, to recommend choices that are more likely to accomplish their intended objectives.The book begins with a survey of modern analytics methods, focusing mainly on techniques useful for decision, risk, and policy analysis. Chapter 2 introduces free in-browser software, including the Causal Analytics Toolkit (CAT) software, to enable readers to perform the analyses described and to apply modern analytics methods easily to their own data sets. Chapters 3 through 11 show how to apply causal analytics and risk analytics to practical risk analysis challenges, mainly related to public and occupational health risks from pathogens in food or from pollutants in air. Chapters 12 through 15 turn to broader questions of how to improve risk management decision-making by individuals, groups, organizations, institutions, and multi-generation societies with different cultures and norms for cooperation. These chapters examine organizational learning, community resilience, societal risk management, and intergenerational collaboration and justice in managing risks.
Working Difference is one of the first comparative, historical studies of women's professional access to public institutions in a state socialist and a capitalist society. Éva Fodor examines women's inclusion in and exclusion from positions of authority in Austria and Hungary in the latter half of the twentieth century. Until the end of World War II women's lives in the two countries, which were once part of the same empire, followed similar paths, which only began to diverge after the communist takeover in Hungary in the late 1940s. Fodor takes advantage of Austria and Hungary's common history to carefully examine the effects of state socialism and the differing trajectories to social mobility and authority available to

women in each country. Fodor brings qualitative and quantitative analyses to bear, combining statistical analyses of survey data, interviews with women managers in both countries, and archival materials including those from the previously classified archives of the Hungarian communist party and transcripts from sessions of the Austrian Parliament. She shows how women's access to power varied in degree and operated through different principles and mechanisms in accordance with the stratification systems of the respective countries. In Hungary women's mobility was curtailed by political means (often involving limited access to communist party membership), while in Austria women's professional advancement was affected by limited access to educational institutions and the labor market. Fodor discusses the legacies of Austria's and Hungary's "gender regimes" following the demise of state socialism and during the process of integration into the European Union.

Interaction Effects in Logistic Regression

Regression & Linear Modeling

Intermediate Statistical Investigations

Gender Inequalities in the Japanese Workplace and Employment

A Report of the United States Commission on Civil Rights

An American Story

Interaction Effects in Multiple Regression has provided students and researchers with a readable and practical introduction to conducting analyses of interaction effects in the context of multiple regression. The new addition will expand the coverage on the analysis of three way interactions in multiple regression analysis. Learn more about "The Little Green Book" - QASS Series! Click Here

This work introduces general strategies for testing interactions in logistic regression as well as providing the tools to interpret and understand the meaning of coefficients in equations with product terms.

Multiple Regression: A Practical Introduction is a text for an advanced undergraduate or beginning graduate course in statistics for social science and related fields. Also, students preparing for more advanced courses can self-study the text to refresh and solidify their statistical background. Drawing on decades of teaching this material, the authors present the ideas in an approachable and nontechnical manner, with no expectation that readers have more than a standard introductory statistics course as background. Multiple regression asks how a dependent variable is related to, or predicted by, a set of independent variables. The book includes many interesting example analyses and interpretations, along with exercises. Each dataset used for the examples and exercises is small enough for readers to easily grasp the entire dataset and its analysis with respect to the specific statistical techniques covered. SPSS, Stata, SAS, and R code and commands for each type of analysis or recoding of variables in the book are available on an accompanying website, along with solutions to the exercises (on the instructor site).

A one-stop guide for public health students and practitioners learning the applications of classical regression models in epidemiology This book is written for public health professionals and students interested in applying regression models in the field of epidemiology. The academic material is usually covered in public health courses including (i) Applied Regression Analysis, (ii) Advanced Epidemiology, and (iii) Statistical Computing. The book is composed of 13 chapters, including an introduction chapter that covers basic concepts of statistics and probability.

Among the topics covered are linear regression model, polynomial regression model, weighted least squares, methods for selecting the best regression equation, and generalized linear models and their applications to different epidemiological study designs. An example is provided in each chapter that applies the theoretical aspects presented in that chapter. In addition, exercises are included and the final chapter is devoted to the solutions of these academic exercises with answers in all of the major statistical software packages, including STATA, SAS, SPSS, and R. It is assumed that readers of this book have a basic course in biostatistics, epidemiology, and introductory calculus. The book will be of interest to anyone looking to understand the statistical fundamentals to support quantitative research in public health. In addition, this book: • Is based on the authors' course notes from 20 years teaching regression modeling in public health courses • Provides exercises at the end of each chapter • Contains a solutions chapter with answers in STATA, SAS, SPSS, and R • Provides real-world public health applications of the theoretical aspects contained in the chapters Applications of Regression Models in Epidemiology is a reference for graduate students in public health and public health practitioners. ERICK SUÁREZ is a Professor of the Department of Biostatistics and Epidemiology at the University of Puerto Rico School of Public Health. He received a Ph.D. degree in Medical Statistics from the London School of Hygiene and Tropical Medicine. He has 29 years of experience teaching biostatistics. CYNTHIA M. PÉREZ is a Professor of the Department of Biostatistics and Epidemiology at the University of Puerto Rico School of Public Health. She received an M.S. degree in Statistics and a Ph.D. degree in Epidemiology from Purdue University. She has 22 years of experience teaching epidemiology and biostatistics. ROBERTO RIVERA is an Associate Professor at the College of Business at the University of Puerto Rico at Mayaguez. He received a Ph.D. degree in Statistics from the University of California in Santa Barbara. He has more than five years of experience teaching statistics courses at the undergraduate and graduate levels. MELISSA N. MARTÍNEZ is an Account Supervisor at Havas Media International. She holds an MPH in Biostatistics from the University of Puerto Rico and an MSBA from the National University in San Diego, California. For the past seven years, she has been performing analyses for the biomedical research and media advertising fields.
Mexican American Entrepreneurship and Wealth Creation
Asian American Policy Review
Women's Working Lives in Hungary and Austria, 1945–1995
Regression Analysis

Theories and Empirical Evidence
This book is an accessible introduction to quantitative dataanalysis, concentrating on the key issues facing those new toresearch, such as how to decide which statistical procedure issuitable, and how to interpret the subsequent results. Each chapterincludes illustrative examples and a set of exercises that allowsreaders to test their understanding of the topic. The book, writtenfor graduate students in the social sciences, public health, andeducation, offers a practical approach to making sociological senseout of a body of quantitative data. The book also will be useful tomore experienced researchers who need a readily accessible handbookon quantitative methods. The author has posted stata files, updates and data sets athis websitehttp://tinyurl.com/Treiman-stata-files-data-sets.

The updated edition of this classic text introduces a range of techniques for exploring quantitative data. Beginning with an emphasis on descriptive statistics and graphical approaches, it moves on in later chapters to simple strategies for examining the associations between variables using inferential statistics such as chi squared. The book has been substantially revised to include the most recent approaches to data analysis, and includes step–by–step instructions on using SPSS. All these techniques are illustrated with intriguing real examples, drawn from important social research over the past three decades, designed to illuminate significant sociological and political debates. The book shows how students can use quantitative data to answer various questions: Is it true that the rich are getting richer and the poor are getting poorer? Are crime rates really going down, and how can we tell? How much alcohol do men and women really drink in an average week? Which country in Europe has the highest average working hours? Readers are encouraged to explore data for themselves, and are carefully guided through the opportunities and pitfalls of using statistical packages, as well as the numerous data sources readily available online. Suitable for those with no previous experience of quantitative data analysis, the second edition of Exploring Data will be invaluable to students across the social sciences. Visit the accompanying website at www.politybooks.com/exploringdata for more materials.

This book provides full coverage of the wide range of multivariate topics that graduate students across the social and behavioral sciences encounter, using a conceptual, non-mathematical, approach. Addressing correlation, multiple regression, exploratory factor analysis, MANOVA, path analysis, and structural equation modeling, it is geared toward the needs, level of sophistication, and interest in multivariate methodology that serves students in applied programs in the social and behavioral sciences. Readers are encouraged to focus on design and interpretation rather than the intricacies of specific computations.

Jason W. Osborne's Best Practices in Logistic Regression provides students with an accessible, applied approach that communicates logistic regression in clear and concise terms. The book effectively leverages readers' basic intuitive understanding of simple and multiple regression to guide them into a sophisticated mastery of logistic regression. Osborne's applied approach offers students and instructors a clear perspective, elucidated through practical and engaging tools that encourage student comprehension.

Teaching Graduate Political Methodology
Responses to Psychological Contract Breach
Integrating the Development of Human Lives and Social Relational Networks
Doing Social Research to Test Ideas
Epidemiological Research Methods
Proceedings of a Workshop

The primary focus here is on log-linear models for contingency tables, but in this second edition, greater emphasis has been placed on logistic regression. The book explores topics such as logistic discrimination and generalised linear models, and builds upon the relationships between these basic models for continuous data and the analogous log-linear and logistic regression models for discrete data. It also carefully examines the differences in model interpretations and evaluations that occur due to the discrete nature of the data. Sample commands are given for analyses in SAS, BMFP, and GLIM, while numerous data sets from fields as diverse as engineering, education, sociology, and medicine are used to illustrate procedures and provide exercises. Throughoutthe book, the treatment is designed for students with prior knowledge of analysis of variance and regression.

The in-depth analyses presented in this book have a dual focus: (1) Social mechanisms through which the gender wage gap, gender inequality in the attainment of managerial positions, and gender segregation of occupations are generated in Japan; and (2) Assessments of the effects of firms' gender-egalitarian personnel policies and work-life balance promotion policies on the gender wage gap and the firms' productivity. In addition, this work reviews and discusses various economic and sociological theories of gender inequality and gender discrimination and considers their consistencies and inconsistencies with the results of the analysis of Japanese data. Furthermore, the book critically reviews and discusses the historical development of the Japanese employment system by juxtaposing rational and cultural explanations. This book is an English translation by the author of a book he first published in Japanese in 2017. The original Japanese-language edition received two major book awards in Japan. One was The Nikkei Economic Book Culture Award, which is given every year by the Nikkei Newspaper Company and the Japan Economic Research Center to a few best books on economy and society. The other was The Showa University's Women's Culture Research Award, which is bestowed annually on a single book of research that promotes gender equality. Kazuo Yamaguchi is the Ralph Lewis Professor of Sociology at the University of Chicago.

In a conversational tone, Regression & Linear Modeling provides conceptual, user-friendly coverage of the generalized linear model (GLM). Readers will become familiar with applications of ordinary least squares (OLS) regression, binary and multinomial logistic regression, ordinal regression, Poisson regression, and loglinear models. Author Jason W. Osborne returns to certain themes throughout the text, such as testing assumptions, examining data quality, and, where appropriate, nonlinear and non-additive effects modeled within different types of linear models.

Working Difference

Rethinking Social Epidemiology

Higher Education: Handbook of Theory and Research

Journal of Higher Education (Canada)

Multiple Regression

Applications of Regression Models in Epidemiology