Apr/May/Jun
Vol 28 No 2

The Stata® News

Statistics Graphics Data Management & Analysis

Stata® Conference

Venue: Hyatt French Quarter New Orleans
800 Iberville Street
New Orleans, Louisiana
frenchquarter.hyatt.com

Dates: July 18–19, 2013

Cost: $195 regular; $75 student
$45 dinner at Tujague's (optional)

Details: **stata.com/new-orleans13**

The Stata Conference is enjoyable and rewarding for Stata users at all levels and from all disciplines. This year's program will consist of presentations by users and StataCorp developers. In addition, the program will include the ever-popular "Wishes and grumbles" session, in which users have an opportunity to share their comments and suggestions directly with developers from StataCorp.

Selected presentations

Optimizing Stata for analysis of large datasets
Joseph Canner
Johns Hopkins University School of Medicine

Inequality restricted maximum entropy estimation using Stata
Randall Campbell
Mississippi State University

Fitting complex mixed logit models with particular focus on labor supply estimation
Max Löffler
IZA and University of Cologne

powersim: Simulation-based power analysis for linear and generalized linear models
Joerg Luedicke
Yale University and University of Florida

A general approach to autocorrelation
Christopher F. Baum
Boston College and DIW Berlin

Two-stage regression without exclusion restrictions
Michael Barker
Georgetown University

The hierarchy of factor invariance
Phil Ender
UCLA Statistical Consulting Group

Including auxiliary variables in models with missing data using full-information maximum likelihood
Rose Anne Medeiros
Rice University

Conditional stereotype logistic regression: A new estimation command
Rob Woodruff
Battelle Memorial Institute

Introducing PARALLEL: Stata module for parallel computing
George Vega
Adolfo Ibáñez University

Structured chaos: Using Mata and Stata to draw fractals
Seth Lirette
University of Mississippi Medical Center

Continued on p. 2

The Stata News
Executive Editor ..... Karen Strope
Production Supervisor..... Annette Fett

Demand system estimation with Stata: Multivariate censoring and other econometric issues
Soufiane Khoudmi
University of Montpellier

gpsmap: Routine for verifying and returning the attributable table of given decimal GPS coordinates
Timothy Brophy
University of Cape Town

Teaching students to make their empirical research replicable: A protocol for documenting data management and analysis
Richard Ball
Haverford College

Reimagining a Stata/Python combination
James Fielder
Universities Space Research Association

Mathematical optimization in Stata: LP and MILP
Choonjoo Lee
Korea National Defense University

Automatic generation of personalized answers to a problem set
Rodrigo Taborda
Universidad del Rosario, Bogotá

MIS, marketing and social–economic development—Novel applications of Stata
Kalyan Prasad Agrawal
Chandragupt Institute of Management Patna

Impulse–response functions analysis: An application to the exchange rate pass-through in Mexico
Sylvia Beatriz Guillermo Peón
Benemérita Universidad Autónoma de Puebla

Correctly modeling CD4 cell count in Cox regression analysis of HIV-positive patients
Allison Dunning
Weill Cornell Medical College

New Stata code to measure poverty accounting for time
Carlos Gradín
Universidade de Vigo and EQUALITAS

TBA
Yulia Marchenko
Director of Biostatistics, StataCorp

TBA
Jeff Pitblado
Director of Statistical Software, StataCorp

Join us for dinner

After the Conference, join us for a traditional Creole dinner at New Orleans's second-oldest restaurant, Tujague's. You will enjoy a four-course dinner in the heart of the French Quarter while you network with other Stata users and StataCorp developers. The dinner will be held Thursday evening, July 18, following the last presentation. Dinner registration is $45 per person, and nonconference guests are welcome. If you have any questions or special needs (vegetarian, handicapped, etc.), contact Sarah Marrs at **smarrs@stata.com**.

Accommodations

Rooms at the Hyatt French Quarter New Orleans are available at the discounted rate of $139 per night. For reservations, call 1-888-591-1234 and identify yourself as a guest with the group StataCorp, or register online at **frenchquarter.hyatt.com**. Make your reservation by June 19, 2013, to receive the discounted rate.

Come early, stay late

Take time to enjoy yourself in New Orleans. The conference hotel is within steps of all the jazz, lights, and eats of Bourbon Street, so while you come to indulge in all things Stata, don't forget to do it Big Easy style. Laissez les bons temps rouler!

New Orleans official tourism site
neworleansonline.com

New Orleans Convention and Visitors Bureau
neworleanscvb.com

The Big Easy Guide to Fine Dining
neworleansrestaurants.com

Scientific committee

- R. Carter Hill (Chair)
  Louisiana State University
- Mario Cleves
  University of Arkansas for Medical Sciences
- Edward Peters
  LSUHSC School of Public Health

Logistics organizer

- Sarah Marrs
  Customer Relationship Manager
  StataCorp

New from Stata Press

Discovering Structural Equation Modeling Using Stata

Discovering Structural Equation Modeling Using Stata, by Alan C. Acock, successfully introduces both the statistical principles involved in structural equation modeling (SEM) and the use of Stata to fit these models. The book uses an application-based approach to teaching SEM. Acock demonstrates how to fit a wide variety of models that fall within the SEM framework and provides datasets that enable the reader to follow along with each example. As each type of model is discussed, concepts such as identification, handling of missing data, model evaluation, and interpretation are covered in detail.

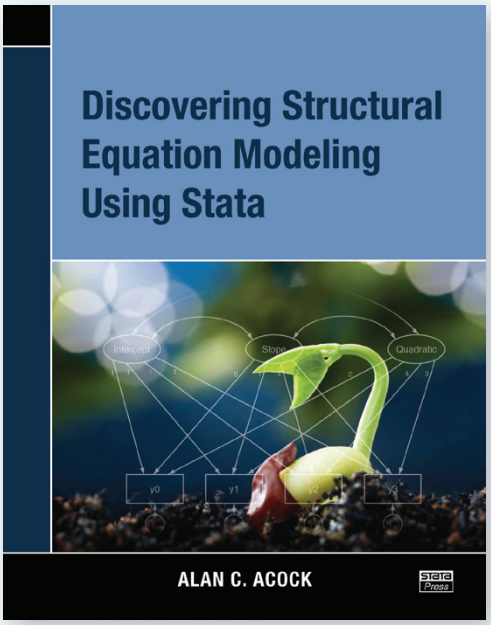
In Stata, structural equation models can be fit using the command language or the graphical user interface (GUI) for SEM, known as the SEM Builder. Acock demonstrates both of these approaches. (Throughout the text, the examples use the **sem** command.) Each chapter also includes brief discussions on drawing the appropriate path diagram and performing estimation from within the SEM Builder. A more in-depth coverage of the SEM Builder is given in one of the book's appendixes.

The first two chapters introduce the building blocks of SEM. Chapter 1 begins with overviews of Cronbach's alpha as a measure of reliability and of exploratory factor analysis. Then, building on these concepts, Acock demonstrates how to perform confirmatory factor analysis, discusses a variety of statistics available for assessing the fit of the model, and shows a more general measurement of reliability that is based on confirmatory factor analysis. Chapter 2 focuses on using SEM to perform path analysis. It includes examples of mediation, moderation, cross-lagged panel models, and nonrecursive models.

Chapter 3 shows how to combine the topics covered in the first two chapters to fit full structural equation models. Also covered is the use of modification indices to guide model modification and computation of direct, indirect, and total effects for full structural equation models.

Chapter 4 details the application of SEM to growth curve modeling. After introducing the basic linear latent growth curve model, Acock extends this to more complex cases such as the inclusion of quadratic terms, time-varying covariates, and time-invariant covariates.

In chapter 5, Acock discusses testing for differences across groups in SEM.



Author: Alan C. Acock
Copyright: 2013
ISBN-13: 978-1-59718-133-4
Price: $48.00

He introduces the specialized **sem** syntax for multiple-group models and discusses the intricacies of testing for group differences for the different types of models presented in the preceding chapters.

Discovering Structural Equation Modeling Using Stata is an excellent resource both for those who are new to SEM and for those who are familiar with SEM but new to fitting these models in Stata. It is useful as a text for courses covering SEM as well as for researchers performing SEM.

You can find the table of contents and order online at
stata-press.com/books/discovering-structural-equation-modeling-using-stata.

New from the Stata Gift Shop

Check out our latest adult T-shirts. 100% cotton.

Price: $10.00 each

stata.com/giftshop

Public training courses by StataCorp

Course	Dates	Location	Cost
Survey Data Analysis Using Stata	May 22–23, 2013	Washington, DC	$1,295
Using Stata Effectively	May 20–21, 2013 June 25–26, 2013	Washington, DC	$950
Panel Data Analysis Using Stata	June 27–28, 2013	Washington, DC	$1,295

Survey Data Analysis Using Stata

Learn how to use Stata for survey data analysis assuming a fixed population. The course covers the sampling methods used to collect survey data and how they affect the estimation of totals, ratios, and regression coefficients as well as Stata's support for many survey variance estimators, including linearization, balanced and repeated replications (BRR), and jackknife. Strata with a single sampling unit, certainty sampling units, subpopulation estimation, and poststratification will also be covered. Exercises will supplement the lectures and Stata examples.

Using Stata Effectively: Data Management, Analysis, and Graphics Fundamentals

Become intimately familiar with all three components of Stata: data management, data analysis, and graphics. Aimed at both new Stata users and those who wish to learn techniques for efficient day-to-day use of Stata, this course enables you to use Stata in a reproducible manner, making collaborative changes and follow-up analyses much simpler. The course will be interactive and use real data.

Panel Data Analysis Using Stata

Understand both the theory and the practice of panel-data analysis after you complete this course. After introducing the fixed-effects and random-effects approaches to unobserved individual-level heterogeneity, the course covers linear models with exogenous covariates, linear models with endogenous variables, dynamic linear models, and some nonlinear models. It also includes an introduction to the generalized method of moments estimation technique. Exercises will supplement the lectures and Stata examples.

We offer a 15% discount for group enrollments of three or more participants. Contact us at **training@stata.com** for details. For course details or to enroll, visit **stata.com/public-training.**

Haver Analytics is hosting Stata training in NYC

The two-day course covers data management and time-series analysis using Stata; it is structured as a lecture with accompanying exercises. Participants will learn how to perform reproducible research with Stata's easy-to-use syntax in an intimate class setting.

Venue: Haver Analytics
60 East 42nd Street
33rd Floor
New York, New York

Dates: July 15–16, 2013

Topics include the following:

- Data management and summary statistics
  - The windows, the graphical user interface, and the command line
  - Importing Haver data and Excel files to Stata
  - Data management: Appending and merging datasets and checking for duplicates
  - Summary statistics and results saved by Stata
- Introduction to regression analysis
  - OLS and 2SLS regression
  - Robust, cluster robust, HAC standard errors, and the bootstrap
  - Hypothesis testing
- Time-series analysis
  - Basic review of time-series analysis
  - Stationary and nonstationary ARMA models
  - Deterministic versus stochastic trends
  - Autoregressive conditionally heteroskedastic models
  - Multivariate models VAR and VEC
  - Multivariate GARCH
  - State-space models
  - Dynamic factor models

Visit **haver.com/stata.html** to enroll and learn more.

HAVER ANALYTICS®

Methodological and Empirical Advances in Financial Analysis (MEAFA) Workshop on Quantitative Analysis Using Stata

MEAFA designs and provides advanced quantitative research training to academia, industry, and government. MEAFA's professional development workshops in quantitative analysis keep members updated with the latest development in quantitative analysis. Its workshops are widely recognized by industry, government, and academia for its state-of-the-art content. To date, more than 430 participants have attended MEAFA's workshops.

Venue: University of Sydney
Sydney, Australia

Dates: June 24–28, 2013

Topics are listed below. You may attend any one or any combination of the following courses.

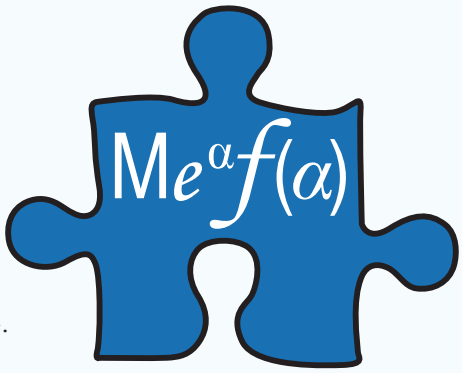
Working efficiently with Stata
Demetris Christodoulou, MEAFA General Convener

Management of raw data
Demetris Christodoulou, MEAFA General Convener

Data visualization
Demetris Christodoulou, MEAFA General Convener

Structural equation modeling (SEM)
Kristin MacDonald, Senior Statistician, StataCorp

For more information, including course details, or to enroll, visit **sydney.edu.au/business/research/meafa/activities/pdworkshop/2013june**.



2013 Stata Users Group meetings

Stata Users Group meetings are held in various locations around the world. These meetings provide Stata users from all disciplines the opportunity to exchange ideas, experiences, and information on new applications of Stata. Anyone interested in using Stata is invited to attend.

Germany

Date: June 7
Venue: University of Potsdam
Details: **stata.com/meeting/germany13**

Ulrich Kohler will conduct a workshop on Advanced do-file programming and an introduction to ado-file programs on Thursday, June 6. Find out more at **stata.com/meeting/germany13/workshop**.

Selected presentations

Creating complex tables for publication
John Luke Gallup
Portland State University

An expanded framework for mixed process modeling in Stata
David Roodman
Center for Global Development

Provide, enrich, and make accessible: Using Stata's capabilities for disseminating NEPS scientific use data
Daniel Bela
National Educational Panel Study (NEPS),
Data Center, University of Bamberg

newspell–Easy management of complex spell data
Hannes Neiss
German Institute for Economic Research

Instrumental-variables estimation using heteroskedasticity-based instruments
Christopher F. Baum
Boston College

Arthur Lewbel
Boston College

Mark E. Schaffer
Heriot–Watt University, Edinburgh

Oleksandr Talavera
University of Sheffield

Using simulation to inspect the performance of a test, in particular tests of the parallel regressions assumption in ordered logit and probit models
Maarten L. Buis
Social Science Research Center (WZB)

Richard Williams
University of Notre Dame

Fitting complex mixed logit models with particular focus on labor supply estimation
Max Löffler
Institute for the Study of Labor (IZA)

Simulated multivariate random-effects probit models for unbalanced panels
Alexander Plum
Otto von Guericke University Magdeburg

xsmle—A command to estimate spatial panel models in Stata
Federico Belotti
University of Rome "Tor Vergata"

Gordon Hughes
University of Edinburgh

Andrea Piano Mortari
University of Rome "Tor Vergata"

Estimating the dose–response function through the GLM approach
Barbara Guardabascio
Italian National Institute of Statistics, Rome

Marco Ventura
Italian National Institute of Statistics, Rome

Predictive margins and marginal effects in Stata
Ben Jann
University of Bern

Report to users
Bill Rising
StataCorp

Wishes and grumbles

2013 Stata Users Group meetings

India

Date: August 1
Venue: Hotel Meluha Fern
Mumbai
Details: **stata.com/meeting/india13**

Nordic and Baltic States

Date: September 27
Venue: Nobel Forum at Karolinska Institutet
Stockholm
Details: **stata.com/meeting/nordic-and-baltic13**

United Kingdom

Dates: September 12–13
Venue: Cass Business School
London
Details: **stata.com/meeting/uk13**

Spain

Date: October 10
Venue: Universidad Carlos III de Madrid
Getafe
Details: **stata.com/meeting/spain13**

Japan

Date: September 20
Venue: Graduate School of Finance, Accounting, and
Law, Waseda University
Nihonbashi, Tokyo
Details: **stata.com/meeting/japan13**

Italy

Dates: November 14–15
Venue: Hotel Brunelleschi
Florence
Details: **stata.com/meeting/italy13**

The official Stata blog: Not Elsewhere Classified

Not Elsewhere Classified is the name of the official Stata blog at blog.stata.com.

In addition to the usual useful announcements that appear on corporate blogs, the Stata blog publishes lengthy, substantive, individually signed postings by developers and professional statisticians at StataCorp. These postings are worthy of your attention.

The substantive articles that appear in the blog are general, expository, and often entertaining while simultaneously less targeted at solving a particular problem. The focus of the blog's substantive articles is to provide deep understanding so that you can provide your own solutions to specific problems.

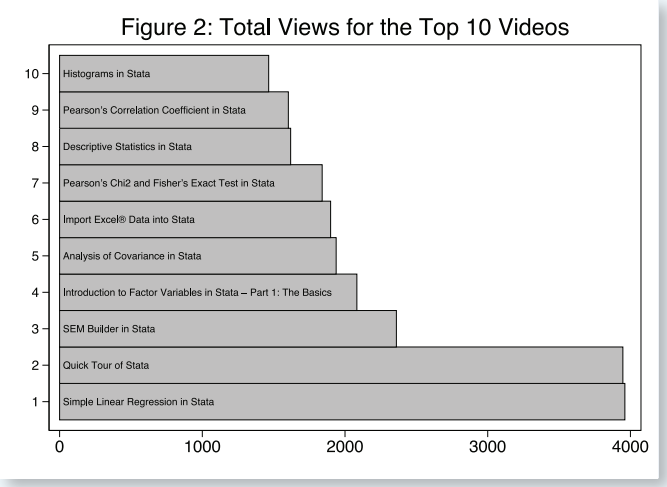
Most corporate blogs do not allow comments. *Not Elsewhere Classified* is different. Because of the substantive nature of the material, we feel it is important that readers be able to submit comments. When reading an article, click on Comments at the top. The comments are sometimes as interesting as, or even more interesting than, the original article.

If you haven't checked out the Stata blog yet, we strongly encourage you to do so. To show you a little of what you're missing, we provide an excerpt from the latest article:

Update on the Stata YouTube Channel
Chuck Huber, Senior Statistician

What is it about round numbers that compels us to pause and reflect? We celebrate 20-year school reunions, 25-year wedding anniversaries, 50th birthdays, and other similar milestones. I don't know the answer, but the Stata YouTube Channel recently passed several milestones—more than 1,500 subscribers, over 50,000 video views, and its 6-month anniversary of inception. We felt the need for a small celebration to mark the occasion, and I thought that I would give you a brief update.

I could tell you about re-recording the original 24 videos with a larger font to make them easier to read. I could tell you about the hardware and software that we use to record them, including our experiments with various condenser and dynamic microphones. I could share quotes from some of the nice messages we've received. But I think it would be more fun to talk about...you!



YouTube collects data about the number of views each video receives as well as summary data about when, where, and how you are watching them. There is no need to be concerned about your privacy: there are no personal identifiers of any kind associated with these data. But the summary data are interesting, and I thought it might be fun to share some of the data with you.

...

How are you watching?
You might think that I would not have anything to report about "how" you are watching the videos, but it turns out that 5.2% of you are watching on mobile devices. Perhaps this explains the 13- to 17-year-old demographic or the 49 people watching on New Year's Eve. Or maybe we are helping you pass the time in the dentist office waiting room.

...

Read more (about you!) at **blog.stata.com**.

Novedades de Stata Press

Aplicaciones en Economía y Ciencias Sociales con Stata

Aplicaciones en Economía y Ciencias Sociales con Stata es la primera publicación en español de Stata Press. El contenido ha sido el resultado de un trabajo que reúne a diversos autores en diferentes áreas de conocimiento. Cada uno de los capítulos presenta el desarrollo de una investigación particular donde se analiza un tópico específico y se emplean técnicas estadísticas y econométricas para sustentar las conclusiones con resultados empíricos que pueden ser en su mayoría reproducidos con datos y do-files disponibles en la página web del libro. Se distinguen tres áreas fundamentales en el libro. La primera corresponde a desigualdad, pobreza y valoración contingente, la segunda se refiere a modelación macroeconómica, y la tercera se concentra en análisis electorales. Adicionalmente, se incluye un primer anexo que presenta una introducción al manejo de bases de datos en Stata, y un segundo anexo que contiene una breve descripción de la implementación de métodos estadísticos básicos en Stata.En el primer capítulo presenta el comando iop, con el cual los autores construyen índices de desigualdad para analizar la efectividad de un programa de ayuda implementado en México para reducir la transmisión intergeneracional de la pobreza. El segundo capítulo introduce un grupo de comandos escritos por el autor para ilustrar el uso de un modelo de Poisson de valla doble que permite diferenciar los determinantes de los niveles de fecundidad alto y bajo, usando datos para el caso Mexicano. En el tercer capítulo se ajustan modelos de efectos fijos para analizar el impacto de la inflación sobre los niveles de pobreza en México. El último capítulo de la primera parte presenta un conjunto de herramientas (incluyendo un comando desarrollado por el autor) para hacer análisis de costo-beneficios acerca de potenciales proyectos de políticas públicas.En la segunda parte del libro se presentan dos aplicaciones de series de tiempo para el análisis y la formulación de proyecciones sobre variables macroeconómicas. En el capítulo cinco se ajusta un modelo VAR estructural para ilustrar el uso del método de Blanchard y Quah para un modelo bivariado que analiza los impactos de los choques de oferta y demanda sobre el producto y los precios. El capítulo seis presenta dos aplicaciones para pequeñas economías abiertas (Venezuela y Uruguay), donde se muestra el uso de los modelos VAR cointegrados y de las proyecciones probabilísticas para generar predicciones sobre eventos combinados que relacionan los niveles de las variables endógenas del modelo.

Los primeros dos capítulos de la tercera parte están dedicados al análisis de las preferencias electorales en las elecciones de 2006 en México. En el capítulo siete se utilizan herramientas de estadística descriptiva y algunos modelos econométricos para detectar los cambios de preferencia experimentados por los mexicanos a lo largo de la campaña electoral presidencial para el año 2006. El siguiente capítulo incorpora una medición del efecto de arrastre de los candidatos presidenciales sobre los valores esperados para el número de asientos que obtendrían los diferentes partidos políticos en la cámara de diputados. El último capítulo de la tercera parte implementa un enfoque novedoso para hacer proyecciones basadas en encuestas sobre preferencias electorales. Los autores emplean técnicas de análisis de imputación múltiple, disponibles en Stata, para completar datos faltantes sobre conducta electoral, con los cuales realizan pronósticos para las elecciones de España de 2011.

Editor:	Alfonso Mendoza Velázquez
Derechos de autor:	2013
ISBN-13:	978-1-59718-134-1
Precio:	$52.00

Para ver tabla de contenidos, u obtener la información necesaria para ordenar este libro, visite **stata-press.com/books/aplicaciones-en-economia-y-ciencias-sociales-con-stata**.

New from the Stata Bookstore

Methods in Epidemiologic Research

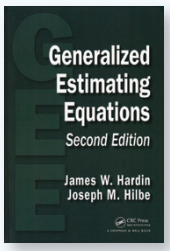
Authors: Ian Dohoo, Wayne Martin, and Henrik Stryhn
Copyright: 2012
ISBN-13: 978-0-919013-73-5
Price: $119.00

In *Methods in Epidemiologic Research*, the authors have converted their popular book about veterinary research to one about human populations, with the corresponding gain that cross-pollination of specialties brings.

The book covers a wide breadth of topics—from design of studies through statistical analysis to effective communication of results. It emphasizes the need to truly show causality rather than association, explaining tools for this in both the design and the analysis stages of a study. It covers standard statistical methods, both basic and advanced, including introductions to spatial and Bayesian analysis methods.

Those with a statistical background can use it to learn to speak the language of epidemiologists; those with an epidemiologic background can use it to learn to speak the language of statisticians. Each chapter has an extensive and up-to-date bibliography, which allows you to use the book as an in-depth self-teaching tool.

Generalized Estimating Equations, Second Edition



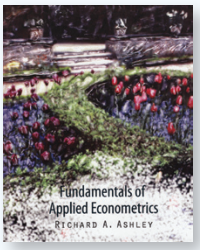
Authors: James W. Hardin and Joseph M. Hilbe
Copyright: 2013
ISBN-13: 978-1-4398-8113-2
Price: $78.50

This sequel to the 2001 text *Generalized Linear Models and Extensions*, by the same authors, provides the first complete treatment of GEE methodology. As with the previous text on GLM, this text is filled with examples on using this methodology with Stata.

This text is heavy in mathematical and computational detail, but the mathematics is balanced by an array of real-world datasets and analyses. Thus the text should appeal to a wide audience, from the mathematical statistician wishing to glean the current state of the GEE literature to the professional researcher needing to fit a GEE model to solve a particular problem.

The second edition includes material about estimation of GEEs for survival analysis and robust variance estimates, as well as additional model-selection tools. Additional program code has also been included.

Fundamentals of Applied Econometrics



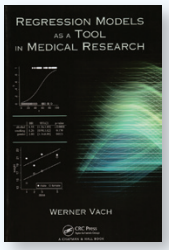
Author: Richard A. Ashley
Copyright: 2012
ISBN-13: 978-0-470-59182-6
Price: $139.00

Fundamentals of Applied Econometrics is an elementary introduction to econometrics focused on the linear regression model. Because it uses no matrix algebra, the book can be used as the main text in a one- or two-semester undergraduate econometrics course or a graduate-level methods course in the social sciences. The book is also recommended for junior analysts in industry and government who need a reference book to guide them along while doing empirical work.

The book is divided into three parts and begins with a refresher on the basics of statistics and hypothesis testing. The core of the book is centered on linear regression, beginning with the simple bivariate regression model with independent errors. Later chapters then introduce multiple regression, stochastic regressors and endogeneity, and regression with time-series data. Three full chapters are devoted to diagnostics and to testing model specification. The third part of the book, which could form the basis of a second-semester course when supplemented with other materials, details panel data, forecasting time series, and binary-choice models.

Most of the numerical examples in the book are produced using Stata, as are all the graphs. Stata datasets for all examples and exercises are available at the publisher's website. Throughout the book are what the author calls "Active Learning Exercises", longer problems that guide readers through the analysis of real datasets and help them get a "hands-on" feel for doing econometrics.

Regression Models as a Tool in Medical Research



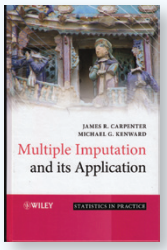
Author: Werner Vach
Copyright: 2013
ISBN-13: 978-1-4665-17486
Price: $79.50

Regression Models as a Tool in Medical Research is a practical guide to regression analysis for medical researchers. It describes the important aspects of regression models for continuous, binary, survival, and count outcomes—all commonly encountered in medical research. The regression models covered include linear regression, logistic regression, Cox regression, and Poisson regression. The book also discusses methods to handle different types of data structures such as matched case–control data and longitudinal data. The "hands-on" examples reinforce the concepts described in each chapter, and the "in-a-nutshell" summaries after each chapter provide a quick refresher of the topics covered.

The book has five parts. The first part covers the basic concepts of the linear, logistic, and Cox regressions commonly used to analyze medical data. The second part discusses more advanced topics such as modeling of nonlinear effects and analysis of longitudinal and clustered data, as well as sample-size and power considerations when designing a study. The third part concentrates on prediction, and the fourth part briefly covers some alternatives to regression modeling. Finally, the fifth part provides mathematical details behind the main regression concepts.

The numerical examples and graphs are produced with Stata; all datasets used in the examples and solutions to all exercises are available at **www.imbi.uni-freiburg.de/RegModToolInMedRes**.

Multiple Imputation and Its Application

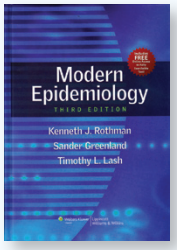


Authors: James R. Carpenter and Michael G. Kenward
Copyright: 2013
ISBN-13: 978-0-470-74052-1
Price: $53.00

Multiple Imputation and Its Application provides an excellent review of multiple imputation (MI) from basic to advanced concepts. The text provides a good mixture of theory and practice.

The book is divided into three parts: foundations, MI for cross-sectional data, and advanced topics. The first part reviews the basic concepts of missing data, such as types of missing data and missing-data assumptions, and of MI, such as the MI procedure and its justification. The second part describes the use of MI for handling missing values in cross-sectional data, including the imputation of different types of data (continuous, binary, ordinal, etc.), and for handling nonlinearities and interactions during imputation. The third part discusses the advanced use of MI for dealing with missing data in complex data structures such as survival data and multilevel data. Other important advanced topics are covered, including the handling of survey weights during imputation, sensitivity analysis, and robust MI.

Modern Epidemiology, Third Edition (Revised)



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