



Missing Data

Missing Data

Craig K. Enders



Missing Data:

Missing Data Patrick E. McKnight, Katherine M. McKnight, Souraya Sidani, Aurelio José Figueredo, 2007-03-28 While most books on missing data focus on applying sophisticated statistical techniques to deal with the problem after it has occurred this volume provides a methodology for the control and prevention of missing data In clear nontechnical language the authors help the reader understand the different types of missing data and their implications for the reliability validity and generalizability of a study s conclusions They provide practical recommendations for designing studies that decrease the likelihood of missing data and for addressing this important issue when reporting study results When statistical remedies are needed such as deletion procedures augmentation methods and single imputation and multiple imputation procedures the book also explains how to make sound decisions about their use Patrick E McKnight s website offers a periodically updated annotated bibliography on missing data and links to other Web resources that address missing data [Missing Data](#) Paul D. Allison, 2001-08-13 Sooner or later anyone who does statistical analysis runs into problems with missing data in which information for some variables is missing for some cases Why is this a problem Because most statistical methods presume that every case has information on all the variables to be included in the analysis Using numerous examples and practical tips this book offers a nontechnical explanation of the standard methods for missing data such as listwise or casewise deletion as well as two newer and better methods maximum likelihood and multiple imputation Anyone who has been relying on ad hoc methods that are statistically inefficient or biased will find this book a welcome and accessible solution to their problems with handling missing data **Applied Missing Data Analysis** Craig K. Enders, 2010-04-23 This book has been replaced by [Applied Missing Data Analysis Second Edition](#) ISBN 978 1 4625 4986 3 [Flexible Imputation of Missing Data, Second Edition](#) Stef van Buuren, 2018-07-17 Missing data pose challenges to real life data analysis Simple ad hoc fixes like deletion or mean imputation only work under highly restrictive conditions which are often not met in practice Multiple imputation replaces each missing value by multiple plausible values The variability between these replacements reflects our ignorance of the true but missing value Each of the completed data set is then analyzed by standard methods and the results are pooled to obtain unbiased estimates with correct confidence intervals Multiple imputation is a general approach that also inspires novel solutions to old problems by reformulating the task at hand as a missing data problem This is the second edition of a popular book on multiple imputation focused on explaining the application of methods through detailed worked examples using the MICE package as developed by the author This new edition incorporates the recent developments in this fast moving field This class tested book avoids mathematical and technical details as much as possible formulas are accompanied by verbal statements that explain the formula in accessible terms The book sharpens the reader s intuition on how to think about missing data and provides all the tools needed to execute a well grounded quantitative analysis in the presence of missing data **Statistical Analysis With Missing Data** Roderick J. A. Little, Donald B. Rubin, 1987-05-11 Blending theory

and application this study reviews historical approaches to the subject and provides rigorous yet simple methods for multivariate analysis with missing values

Missing Data John W. Graham, 2012-06-08 Missing data have long plagued those conducting applied research in the social behavioral and health sciences Good missing data analysis solutions are available but practical information about implementation of these solutions has been lacking The objective of Missing Data Analysis and Design is to enable investigators who are non statisticians to implement modern missing data procedures properly in their research and reap the benefits in terms of improved accuracy and statistical power Missing Data Analysis and Design contains essential information for both beginners and advanced readers For researchers with limited missing data analysis experience this book offers an easy to read introduction to the theoretical underpinnings of analysis of missing data provides clear step by step instructions for performing state of the art multiple imputation analyses and offers practical advice based on over 20 years experience for avoiding and troubleshooting problems For more advanced readers unique discussions of attrition non Monte Carlo techniques for simulations involving missing data evaluation of the benefits of auxiliary variables and highly cost effective planned missing data designs are provided The author lays out missing data theory in a plain English style that is accessible and precise Most analysis described in the book are conducted using the well known statistical software packages SAS and SPSS supplemented by Norm 2 03 and associated Java based automation utilities A related web site contains free downloads of the supplementary software as well as sample empirical data sets and a variety of practical exercises described in the book to enhance and reinforce the reader s learning experience Missing Data Analysis and Design and its web site work together to enable beginners to gain confidence in their ability to conduct missing data analysis and more advanced readers to expand their skill set

Multiple Imputation of Missing Data in Practice Yulei He, Guangyu Zhang, Chiu-Hsieh Hsu, 2021-11-19 Multiple Imputation of Missing Data in Practice Basic Theory and Analysis Strategies provides a comprehensive introduction to the multiple imputation approach to missing data problems that are often encountered in data analysis Over the past 40 years or so multiple imputation has gone through rapid development in both theories and applications It is nowadays the most versatile popular and effective missing data strategy that is used by researchers and practitioners across different fields There is a strong need to better understand and learn about multiple imputation in the research and practical community Accessible to a broad audience this book explains statistical concepts of missing data problems and the associated terminology It focuses on how to address missing data problems using multiple imputation It describes the basic theory behind multiple imputation and many commonly used models and methods These ideas are illustrated by examples from a wide variety of missing data problems Real data from studies with different designs and features e g cross sectional data longitudinal data complex surveys survival data studies subject to measurement error etc are used to demonstrate the methods In order for readers not only to know how to use the methods but understand why multiple imputation works and how to choose appropriate methods simulation studies are used to assess the performance of

the multiple imputation methods Example datasets and sample programming code are either included in the book or available at a github site https://github.com/he-zhang-hsu/multiple_imputation_book Key Features Provides an overview of statistical concepts that are useful for better understanding missing data problems and multiple imputation analysis Provides a detailed discussion on multiple imputation models and methods targeted to different types of missing data problems e.g. univariate and multivariate missing data problems missing data in survival analysis longitudinal data complex surveys etc Explores measurement error problems with multiple imputation Discusses analysis strategies for multiple imputation diagnostics Discusses data production issues when the goal of multiple imputation is to release datasets for public use as done by organizations that process and manage large scale surveys with nonresponse problems For some examples illustrative datasets and sample programming code from popular statistical packages e.g. SAS R WinBUGS are included in the book For others they are available at a github site https://github.com/he-zhang-hsu/multiple_imputation_book

Missing Data Analysis in Practice Trivellore Raghunathan, 2015-10-28 Missing Data Analysis in Practice provides practical methods for analyzing missing data along with the heuristic reasoning for understanding the theoretical underpinnings Drawing on his 25 years of experience researching teaching and consulting in quantitative areas the author presents both frequentist and Bayesian perspectives He describes ea

Statistical Methods for Health Care Research Barbara Hazard Munro, 2005 Focusing on the statistical methods most frequently used in the health care literature and featuring numerous charts graphs and up to date examples from the literature this text provides a thorough foundation for the statistics portion of nursing and all health care research courses All Fifth Edition chapters include new examples and new computer printouts using the latest software SPSS for Windows Version 12 New material on regression diagnostics has been added

Handbook of Missing Data Methodology Geert Molenberghs, Garrett Fitzmaurice, Michael G. Kenward, Anastasios Tsiatis, Geert Verbeke, 2014-11-06 Missing data affect nearly every discipline by complicating the statistical analysis of collected data But since the 1990s there have been important developments in the statistical methodology for handling missing data Written by renowned statisticians in this area Handbook of Missing Data Methodology presents many methodological advances and t

Handbook of Psychology: Research methods in psychology Irving B. Weiner, Donald K. Freedheim, John A. Schinka, Wayne F. Velicer, 2003 Includes established theories and cutting edge developments Presents the work of an international group of experts Presents the nature origin implications and future course of major unresolved issues in the area

Modern Epidemiology Kenneth J. Rothman, Sander Greenland, Timothy L. Lash, 2008 The thoroughly revised and updated Third Edition of the acclaimed Modern Epidemiology reflects both the conceptual development of this evolving science and the increasingly focal role that epidemiology plays in dealing with public health and medical problems Coauthored by three leading epidemiologists with sixteen additional contributors this Third Edition is the most comprehensive and cohesive text on the principles and methods of epidemiologic research The book covers a broad range of concepts and methods such as basic measures of disease

frequency and associations study design field methods threats to validity and assessing precision It also covers advanced topics in data analysis such as Bayesian analysis bias analysis and hierarchical regression Chapters examine specific areas of research such as disease surveillance ecologic studies social epidemiology infectious disease epidemiology genetic and molecular epidemiology nutritional epidemiology environmental epidemiology reproductive epidemiology and clinical epidemiology

Flexible Imputation of Missing Data Stef van Buuren, 2012-03-29 Missing data form a problem in every scientific discipline yet the techniques required to handle them are complicated and often lacking One of the great ideas in statistical science multiple imputation fills gaps in the data with plausible values the uncertainty of which is coded in the data itself It also solves other problems many of which are missing data problems in disguise Flexible Imputation of Missing Data is supported by many examples using real data taken from the author's vast experience of collaborative research and presents a practical guide for handling missing data under the framework of multiple imputation Furthermore detailed guidance of implementation in R using the author's package MICE is included throughout the book Assuming familiarity with basic statistical concepts and multivariate methods Flexible Imputation of Missing Data is intended for two audiences Bio statisticians epidemiologists and methodologists in the social and health sciences Substantive researchers who do not call themselves statisticians but who possess the necessary skills to understand the principles and to follow the recipes This graduate tested book avoids mathematical and technical details as much as possible formulas are accompanied by a verbal statement that explains the formula in layperson terms Readers less concerned with the theoretical underpinnings will be able to pick up the general idea and technical material is available for those who desire deeper understanding The analyses can be replicated in R using a dedicated package developed by the author

Applied Multivariate Research Lawrence S. Meyers, Glenn Gamst, A.J. Guarino, 2006 Multivariate designs were once the province of the very few exalted researchers who understood the underlying advanced mathematics Today through the sophistication of statistical software packages such as SPSS virtually all graduate students across the social and behavioural sciences are exposed to the complex multivariate statistical techniques without having to learn the mathematical computations needed to acquire the data output These students in psychology education political science etc will never be statisticians and appropriately so their preparation and coursework reflects less of an emphasis on the mathematical complexities of multivariate statistics and more on the analysis and the interpretation of the methods themselves and the actual data output This book provides full coverage of the wide range of multivariate topics in a conceptual rather than mathematical approach The author gears toward the needs level of sophistication and interest in multivariate methodology of students in applied areas that need to focus on design and interpretation rather than the intricacies of specific computations The book includes Coverage of the most widely used multivariate designs multiple regression exploratory factor analysis MANOVA and structural equation modeling Integrated SPSS examples for hands on learning from one large study for consistency of application throughout the text Examples of

written results to enable students to learn how the results of these procedures are communicated Practical application of the techniques using contemporary studies that will resonate with students

The Prevention and Treatment of Missing Data in Clinical Trials National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Handling Missing Data in Clinical Trials, 2011-01-21 Randomized clinical trials are the primary tool for evaluating new medical interventions Randomization provides for a fair comparison between treatment and control groups balancing out on average distributions of known and unknown factors among the participants Unfortunately these studies often lack a substantial percentage of data This missing data reduces the benefit provided by the randomization and introduces potential biases in the comparison of the treatment groups Missing data can arise for a variety of reasons including the inability or unwillingness of participants to meet appointments for evaluation And in some studies some or all of data collection ceases when participants discontinue study treatment Existing guidelines for the design and conduct of clinical trials and the analysis of the resulting data provide only limited advice on how to handle missing data Thus approaches to the analysis of data with an appreciable amount of missing values tend to be ad hoc and variable The Prevention and Treatment of Missing Data in Clinical Trials concludes that a more principled approach to design and analysis in the presence of missing data is both needed and possible Such an approach needs to focus on two critical elements 1 careful design and conduct to limit the amount and impact of missing data and 2 analysis that makes full use of information on all randomized participants and is based on careful attention to the assumptions about the nature of the missing data underlying estimates of treatment effects In addition to the highest priority recommendations the book offers more detailed recommendations on the conduct of clinical trials and techniques for analysis of trial data

Handbook of Social Psychology, Volume 1 Susan T. Fiske, Daniel T. Gilbert, Gardner Lindzey, 2010-02-15 First published in 1935 The Handbook of Social Psychology was the first major reference work to cover the field of social psychology The field has since evolved and expanded tremendously and in each subsequent edition The Handbook of Social Psychology is still the foremost reference that academics researchers and graduate students in psychology turn to for the most current well researched and thorough information covering the field of social psychology This volume of the Fifth Edition covers the science of social psychology and the social being

Applied Factor Analysis R. J. Rummel, 1988 Applied Factor Analysis was written to help others apply factor analysis throughout the sciences with the conviction that factor analysis is a calculus of the social sciences The book developed from research undertaken to do a 236 variable cross national analysis

Strategies for Data Analysis with Two Types of Missing Values Ofer Harel, 2009-10 Missing data an issue frequently encountered in data analysis causes difficulties with estimation precision and inference Methods for dealing with missing data issues have been studied extensively in the last few decades All disciplines that require data collection have encountered missing data at one time or another For various reasons two types of missing values can be present in the same dataset New questions about the

probabilistic mechanisms generating the two types of missing values and the conditions under which these mechanisms can be partially or completely ignored are discussed in length Two stage multiple imputation MI an extension of conventional MI is introduced together with two real data examples which demonstrate the implementation of two stage MI In the first example the missing data mechanisms are completely ignored In the second example the missing data mechanisms are partially ignored and partially modeled The material covered in this book will be especially useful for professionals in the Statistics and Biostatistics fields or anyone else who works with incomplete data

Missing Data Methods David M. Drukker, 2011-11-23 Contains 16 chapters authored by specialists in the field covering topics such as Missing Data Imputation in Nonstationary Panel Data Models Markov Switching Models in Empirical Finance Bayesian Analysis of Multivariate Sample Selection Models Using Gaussian Copulas and Consistent Estimation and Orthogonality

Preventing and Treating Missing Data in Longitudinal Clinical Trials Craig H. Mallinckrodt, 2013-01-28 Recent decades have brought advances in statistical theory for missing data which combined with advances in computing ability have allowed implementation of a wide array of analyses In fact so many methods are available that it can be difficult to ascertain when to use which method This book focuses on the prevention and treatment of missing data in longitudinal clinical trials Based on his extensive experience with missing data the author offers advice on choosing analysis methods and on ways to prevent missing data through appropriate trial design and conduct He offers a practical guide to key principles and explains analytic methods for the non statistician using limited statistical notation and jargon The book s goal is to present a comprehensive strategy for preventing and treating missing data and to make available the programs used to conduct the analyses of the example dataset

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