
STATISTICAL MODELS FOR
**CAUSAL
ANALYSIS**



**Robert D. Retherford
and
Minja Kim Choe**

Statistical Models For Causal Analysis

Matthew McBee



Statistical Models For Causal Analysis:

Statistical Models for Causal Analysis Robert D. Retherford, Minja Kim Choe, 2011-02-01 Simplifies the treatment of statistical inference focusing on how to specify and interpret models in the context of testing causal theories Simple bivariate regression multiple regression multiple classification analysis path analysis logit regression multinomial logit regression and survival models are among the subjects covered Features an appendix of computer programs for major statistical packages that are used to generate illustrative examples contained in the chapters

Statistical Models and Causal Inference David A. Freedman, 2009-11-23 David A Freedman presents here a definitive synthesis of his approach to causal inference in the social sciences He explores the foundations and limitations of statistical modeling illustrating basic arguments with examples from political science public policy law and epidemiology Freedman maintains that many new technical approaches to statistical modeling constitute not progress but regress Instead he advocates a shoe leather methodology which exploits natural variation to mitigate confounding and relies on intimate knowledge of the subject matter to develop meticulous research designs and eliminate rival explanations When Freedman first enunciated this position he was met with scepticism in part because it was hard to believe that a mathematical statistician of his stature would favor low tech approaches But the tide is turning Many social scientists now agree that statistical technique cannot substitute for good research design and subject matter knowledge This book offers an integrated presentation of Freedman s views

Causal Analysis Lawrence R. James, Stanley A. Mulaik, Jeanne M. Brett, 1982-10 This book focuses specifically on confirmatory analysis a quantitative technique used to illuminate causal relationships among organizational phenomena The authors outline the conditions that must be met if causal inferences are to be drawn from nonexperimental data and offer new tests for determining whether data meet those conditions While analytic models and techniques of confirmatory analysis are stressed here the authors also emphasize the importance of strong well developed theory as a prerequisite to the appropriate application of these powerful but easily misused tools

Statistical Approaches to Causal Analysis Matthew McBee, 2022-03-01 This book provides an up to date and accessible introduction to causal inference in quantitative research Featuring worked example datasets throughout it clearly outlines the steps involved in carrying out various types of statistical causal analysis In turn helping you apply these methods to your own research It contains guidance on Selecting the most appropriate conditioning method for your data Applying the Rubin s Causal Model to your analysis a mathematical framework for understanding and ensuring accurate causation inferences Utilising various techniques and designs such as propensity scores instrumental variables analysis and regression discontinuity designs to better synthesise and analyse different types of data Part of The SAGE Quantitative Research Kit this book will give you the know how and confidence needed to succeed on your quantitative research journey

Handbook of Causal Analysis for Social Research Stephen L. Morgan, 2013-04-22 What constitutes a causal explanation and must an explanation be causal What warrants a causal inference as opposed to a descriptive

regularity What techniques are available to detect when causal effects are present and when can these techniques be used to identify the relative importance of these effects What complications do the interactions of individuals create for these techniques When can mixed methods of analysis be used to deepen causal accounts Must causal claims include generative mechanisms and how effective are empirical methods designed to discover them The Handbook of Causal Analysis for Social Research tackles these questions with nineteen chapters from leading scholars in sociology statistics public health computer science and human development *Causal Analysis in Population Studies* Henriette Engelhardt, Hans-Peter Kohler, Alexia Fürnkranz-Prskawetz, 2009-05-05 The central aim of many studies in population research and demography is to explain cause effect relationships among variables or events For decades population scientists have concentrated their efforts on estimating the causes of effects by applying standard cross sectional and dynamic regression techniques with regression coefficients routinely being understood as estimates of causal effects The standard approach to infer the effects of causes in natural sciences and in psychology is to conduct randomized experiments In population studies experimental designs are generally infeasible In population studies most research is based on non experimental designs observational or survey designs and rarely on quasi experiments or natural experiments Using non experimental designs to infer causal relationships i e relationships that can ultimately inform policies or interventions is a complex undertaking Specifically treatment effects can be inferred from non experimental data with a counterfactual approach In this counterfactual perspective causal effects are defined as the difference between the potential outcome irrespective of whether or not an individual had received a certain treatment or experienced a certain cause The counterfactual approach to estimate effects of causes from quasi experimental data or from observational studies was first proposed by Rubin in 1974 and further developed by James Heckman and others This book presents both theoretical contributions and empirical applications of the counterfactual approach to causal inference Statistics and Causality Wolfgang Wiedermann, Alexander von Eye, 2016-05-20 b

STATISTICS AND CAUSALITYA one of a kind guide to identifying and dealing with modern statistical developments in causality Written by a group of well known experts Statistics and Causality Methods for Applied Empirical Research focuses on the most up to date developments in statistical methods in respect to causality Illustrating the properties of statistical methods to theories of causality the book features a summary of the latest developments in methods for statistical analysis of causality hypotheses The book is divided into five accessible and independent parts The first part introduces the foundations of causal structures and discusses issues associated with standard mechanistic and difference making theories of causality The second part features novel generalizations of methods designed to make statements concerning the direction of effects The third part illustrates advances in Granger causality testing and related issues The fourth part focuses on counterfactual approaches and propensity score analysis Finally the fifth part presents designs for causal inference with an overview of the research designs commonly used in epidemiology Statistics and Causality Methods for Applied Empirical Research also

includes New statistical methodologies and approaches to causal analysis in the context of the continuing development of philosophical theories End of chapter bibliographies that provide references for further discussions and additional research topics Discussions on the use and applicability of software when appropriate Statistics and Causality Methods for Applied Empirical Research is an ideal reference for practicing statisticians applied mathematicians psychologists sociologists logicians medical professionals epidemiologists and educators who want to learn more about new methodologies in causal analysis The book is also an excellent textbook for graduate level courses in causality and qualitative logic Causality and Causal Modelling in the Social Sciences Federica Russo,2008-09-18 The anti causal prophecies of last century have been disproved Causality is neither a relic of a bygone nor another fetish of modern science it still occupies a large part of the current debate in philosophy and the sciences This investigation into causal modelling presents the rationale of causality i e the notion that guides causal reasoning in causal modelling It is argued that causal models are regimented by a rationale of variation nor of regularity neither invariance thus breaking down the dominant Human paradigm The notion of variation is shown to be embedded in the scheme of reasoning behind various causal models e g Rubin s model contingency tables and multilevel analysis It is also shown to be latent yet fundamental in many philosophical accounts Moreover it has significant consequences for methodological issues the warranty of the causal interpretation of causal models the levels of causation the characterisation of mechanisms and the interpretation of probability This book offers a novel philosophical and methodological approach to causal reasoning in causal modelling and provides the reader with the tools to be up to date about various issues causality rises in social science Dr Federica Russo s book is a very valuable addition to a small number of relevant publications on causality and causal modelling in the social sciences viewed from a philosophical approach Prof Guillaume Wunsch Institute of Demography University of Louvain Belgium *Causality* Judea Pearl,2009-09-14 Causality offers the first comprehensive coverage of causal analysis in many sciences including recent advances using graphical methods Pearl presents a unified account of the probabilistic manipulative counterfactual and structural approaches to causation and devises simple mathematical tools for analyzing the relationships between causal connections statistical associations actions and observations The book will open the way for including causal analysis in the standard curriculum of statistics artificial intelligence *Qualitative and Quantitative Social Research* Robert King Merton,James S. Coleman,Peter Henry Rossi,1979 *Management and Business Research* Mark Easterby-Smith,Lena J. Jaspersen,Richard Thorpe,Danat Valizade,2021-04-28 This bestselling textbook has been fully updated and provides readers with a comprehensive overview of methods for conducting business and management research Highly visual and written in a clear and accessible way the book includes helpful learning features throughout including learning goals at the start of each chapter a research in action feature examples a Research Plan Canvas template and more The content has been brought up to date with the inclusion of big data predictive analytics and a dedicated chapter on machine learning Accompanying the book is a wealth of online

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Casual Analysis Matthew McBee, 2020-09-29

Causal Inference in R Subhajit Das, 2024-11-29 Master the fundamentals to advanced techniques of causal inference through a practical hands on approach with extensive R code examples and real world applications Key Features Explore causal analysis with hands on R tutorials and real world examples Grasp complex statistical methods by taking a detailed easy to follow approach Equip yourself with actionable insights and strategies for making data driven decisions Purchase of the print or Kindle book includes a free PDF eBook Book Description Determining causality in data is difficult due to confounding factors Written by an applied scientist specializing in causal inference with over a decade of experience Causal Inference in R provides the tools and methods you need to accurately establish causal relationships improving data driven decision making This book helps you get to grips with foundational concepts offering a clear understanding of causal models and their relevance in data analysis You ll progress through chapters that blend theory with hands on examples illustrating how to apply advanced statistical methods to real world scenarios You ll discover techniques for establishing causality from classic approaches to contemporary methods such as propensity score matching and instrumental variables Each chapter is enriched with detailed case studies and R code snippets enabling you to implement concepts immediately Beyond technical skills this book also emphasizes critical thinking in data analysis to empower you to make informed data driven decisions The chapters enable you to harness the power of causal inference in R to uncover deeper insights from data By the end of this book you ll be able to confidently establish causal relationships and make data driven decisions with precision What you will learn Get a solid understanding of the fundamental concepts and applications of causal inference Utilize R to construct and interpret causal models Apply techniques for robust causal analysis in real world data Implement advanced causal inference methods such as instrumental variables and propensity score matching Develop the ability to apply graphical models for causal analysis Identify and address common challenges and pitfalls in controlled experiments for effective causal analysis Become proficient in the practical application of doubly robust estimation using R Who this book is for This book is for data practitioners statisticians and researchers keen on enhancing their skills in causal inference using R as well as individuals who aspire to make data driven decisions in complex scenarios It serves as a valuable resource for both beginners and experienced professionals in data analysis public policy economics and social sciences Academics and students looking to deepen their understanding of causal models and their practical implementation will also find it highly beneficial

Causality Phyllis McKay Illari, Federica Russo, 2014 Head hits cause brain damage but not always Should we ban sport to protect athletes Exposure to electromagnetic fields is strongly associated with cancer development does that mean exposure causes cancer Should we encourage old fashioned communication instead of mobile phones to reduce cancer rates According to popular wisdom the Mediterranean diet keeps

you healthy Is this belief scientifically sound Should public health bodies encourage consumption of fresh fruit and vegetables Severe financial constraints on research and public policy media pressure and public anxiety make such questions of immense current concern not just to philosophers but to scientists governments public bodies and the general public In the last decade there has been an explosion of theorizing about causality in philosophy and also in the sciences This literature is both fascinating and important but it is involved and highly technical This makes it inaccessible to many who would like to use it philosophers and scientists alike This book is an introduction to philosophy of causality one that is highly accessible to scientists unacquainted with philosophy to philosophers unacquainted with science and to anyone else lost in the labyrinth of philosophical theories of causality It presents key philosophical accounts concepts and methods using examples from the sciences to show how to apply philosophical debates to scientific problems *Information-based methods for neuroimaging: analyzing structure, function and dynamics* Jesus M. Cortés, Daniele Marinazzo, Miguel Angel Muñoz, 2015-05-07 The aim of this Research Topic is to discuss the state of the art on the use of Information based methods in the analysis of neuroimaging data Information based methods typically built as extensions of the Shannon Entropy are at the basis of model free approaches which being based on probability distributions rather than on specific expectations can account for all possible non linearities present in the data in a model independent fashion Mutual Information like methods can also be applied on interacting dynamical variables described by time series thus addressing the uncertainty reduction or information in one variable by conditioning on another set of variables In the last years different Information based methods have been shown to be flexible and powerful tools to analyze neuroimaging data with a wide range of different methodologies including formulations based on bivariate vs multivariate representations frequency vs time domains etc Apart from methodological issues the information bit as a common unit represents a convenient way to open the road for comparison and integration between different measurements of neuroimaging data in three complementary contexts Structural Connectivity Dynamical Functional and Effective Connectivity and Modelling of brain activity Applications are ubiquitous starting from resting state in healthy subjects to modulations of consciousness and other aspects of pathophysiology Mutual Information based methods have provided new insights about common principles in brain organization showing the existence of an active default network when the brain is at rest It is not clear however how this default network is generated the different modules are intra interacting or disappearing in the presence of stimulation Some of these open questions at the functional level might find their mechanisms on their structural correlates A key question is the link between structure and function and the use of structural priors for the understanding of the functional connectivity measures As effective connectivity is concerned recently a common framework has been proposed for Transfer Entropy and Granger Causality a well established methodology originally based on autoregressive models This framework can open the way to new theories and applications This Research Topic brings together contributions from researchers from different backgrounds which are either developing

new approaches or applying existing methodologies to new data and we hope it will set the basis for discussing the development and validation of new Information based methodologies for the understanding of brain structure function and dynamics

Generalized Linear Models John Patrick Hoffmann,2004 This brief and economical text shows students with relatively little mathematical background how to understand and apply sophisticated linear regression models in their research areas within the social behavioral and medical sciences as well as marketing and business Less theoretical than competing texts Hoffman includes numerous exercises and worked out examples and sample programs and data sets for three popular statistical software programs SPSS SAS and Stata

Correlation and Causality David A. Kenny,1979 Structural modeling Covariance algebra Principles of path analysis Models with observed variables as causes Measurement error in the exogenous variable and third variables Observed variables as causes of each other Single unmeasured exogenous variables Causal models with multiple unmeasured variables Causal models with unmeasured variables Causal models and true experiments The nonequivalent control group design Cross lagged panel correlation Loose ends

Direction Dependence in Statistical Modeling Wolfgang Wiedermann, Daeyoung Kim, Engin A. Sungur, Alexander von Eye, 2020-11-09 Covers the latest developments in direction dependence research Direction Dependence in Statistical Modeling Methods of Analysis incorporates the latest research for the statistical analysis of hypotheses that are compatible with the causal direction of dependence of variable relations Having particular application in the fields of neuroscience clinical psychology developmental psychology educational psychology and epidemiology direction dependence methods have attracted growing attention due to their potential to help decide which of two competing statistical models is more likely to reflect the correct causal flow The book covers several topics in depth including A demonstration of the importance of methods for the analysis of direction dependence hypotheses A presentation of the development of methods for direction dependence analysis together with recent novel unpublished software implementations A review of methods of direction dependence following the copula based tradition of Sungur and Kim A presentation of extensions of direction dependence methods to the domain of categorical data An overview of algorithms for causal structure learning The book s fourteen chapters include a discussion of the use of custom dialogs and macros in SPSS to make direction dependence analysis accessible to empirical researchers

Philosophical Foundations of Social Research Methods: New strategies in social research Malcolm Williams,2006 The philosophy of social research is a subset of the philosophy of social science but also an important subject area spanning methodology and method The articles in this collection are the best exemplars of key positions in a very wide disciplinary field Topics covered include science and art in the history of social research positivism and antipositivism language and the linguistic turn realism and anti realism theory and theory choice logic and models prediction and laws interpretation probability and complexity

Causal Modelling in Nonexperimental Research Willem E. Saris, L. H. Stronkhorst, L. Henk Stronkhorst,1984 Analysis of variance has become a major tool for causal analyses in experimental research

Covariance structure analysis is increasingly taking this place in the nonexperimental sciences. Apart from the data analysis itself, the specification of models plays a very important role in this approach. This book introduces both aspects of covariance structure analysis. In doing so, an effort is made to link up the older path analysis approach with the new and more powerful LISREL approach. All of the relevant aspects of the approach are covered at an introductory level. The prior level of mathematical or statistical knowledge is very limited; knowledge of some descriptions is convenient, but no matrix algebra is required. The procedures are illustrated by concrete data analyses using the LISREL computer program, but the text does not depend on the use of this particular program.

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