

Springer Series in Statistics

Paul R. Rosenbaum

Design of Observational Studies

Second Edition

 Springer

Design Of Observational Studies Springer Series In Statistics

Guido W. Imbens, Donald B. Rubin



Design Of Observational Studies Springer Series In Statistics:

Design of Observational Studies Paul R. Rosenbaum, 2020-07-13 This second edition of *Design of Observational Studies* is both an introduction to statistical inference in observational studies and a detailed discussion of the principles that guide the design of observational studies. An observational study is an empiric investigation of effects caused by treatments when randomized experimentation is unethical or infeasible. Observational studies are common in most fields that study the effects of treatments on people including medicine, economics, epidemiology, education, psychology, political science, and sociology. The quality and strength of evidence provided by an observational study is determined largely by its design. *Design of Observational Studies* is organized into five parts. Chapters 2, 3, and 5 of Part I cover concisely many of the ideas discussed in Rosenbaum's *Observational Studies*, also published by Springer, but in a less technical fashion. Part II discusses the practical aspects of using propensity scores and other tools to create a matched comparison that balances many covariates and includes an updated chapter on matching in R. In Part III, the concept of design sensitivity is used to appraise the relative ability of competing designs to distinguish treatment effects from biases due to unmeasured covariates. Part IV is new to this edition; it discusses evidence factors and the computerized construction of more than one comparison group. Part V discusses planning the analysis of an observational study with particular reference to Sir Ronald Fisher's striking advice for observational studies: make your theories elaborate. This new edition features updated exploration of causal influence with four new chapters, a new R package *DOS2* designed as a companion for the book, and discussion of several of the latest matching packages for R. In particular, *DOS2* allows readers to reproduce many analyses from *Design of Observational Studies*.

Observational Studies Paul R. Rosenbaum, 2013-06-29 An observational study is an empirical investigation of the effects of treatments, policies, or exposures. It differs from an experiment in that the investigator cannot control the assignments of treatments to subjects. Scientists across a wide range of disciplines undertake such studies, and the aim of this book is to provide a sound statistical account of the principles and methods for the design and analysis of observational studies. Readers are assumed to have a working knowledge of basic probability and statistics, but otherwise the account is reasonably self-contained. Throughout, there are extended discussions of actual observational studies to illustrate the ideas discussed. These are drawn from topics as diverse as smoking and lung cancer, lead in children, nuclear weapons testing, and placement programs for students. As a result, many researchers involved in observational studies will find this an invaluable companion to their work.

Handbook of Matching and Weighting Adjustments for Causal Inference José R. Zubizarreta, Elizabeth A. Stuart, Dylan S. Small, Paul R. Rosenbaum, 2023-04-11 An observational study infers the effects caused by a treatment policy, program, intervention, or exposure in a context in which randomized experimentation is unethical or impractical. One task in an observational study is to adjust for visible pretreatment differences between the treated and control groups. Multivariate matching and weighting are two modern forms of adjustment. This handbook

provides a comprehensive survey of the most recent methods of adjustment by matching weighting machine learning and their combinations Three additional chapters introduce the steps from association to causation that follow after adjustments are complete When used alone matching and weighting do not use outcome information so they are part of the design of an observational study When used in conjunction with models for the outcome matching and weighting may enhance the robustness of model based adjustments The book is for researchers in medicine economics public health psychology epidemiology public program evaluation and statistics who examine evidence of the effects on human beings of treatments policies or exposures

Impact Evaluation in Practice, Second Edition Paul J. Gertler, Sebastian Martinez, Patrick Premand, Laura B. Rawlings, Christel M. J. Vermeersch, 2016-09-12 The second edition of the *Impact Evaluation in Practice* handbook is a comprehensive and accessible introduction to impact evaluation for policy makers and development practitioners First published in 2011 it has been used widely across the development and academic communities The book incorporates real world examples to present practical guidelines for designing and implementing impact evaluations Readers will gain an understanding of impact evaluations and the best ways to use them to design evidence based policies and programs The updated version covers the newest techniques for evaluating programs and includes state of the art implementation advice as well as an expanded set of examples and case studies that draw on recent development challenges It also includes new material on research ethics and partnerships to conduct impact evaluation The handbook is divided into four sections Part One discusses what to evaluate and why Part Two presents the main impact evaluation methods Part Three addresses how to manage impact evaluations Part Four reviews impact evaluation sampling and data collection Case studies illustrate different applications of impact evaluations The book links to complementary instructional material available online including an applied case as well as questions and answers The updated second edition will be a valuable resource for the international development community universities and policy makers looking to build better evidence around what works in development

JMP for Mixed Models Ruth Hummel, Elizabeth A. Claassen, Russell D. Wolfinger, 2021-06-09 Discover the power of mixed models with JMP and JMP Pro Mixed models are now the mainstream method of choice for analyzing experimental data Why They are arguably the most straightforward and powerful way to handle correlated observations in designed experiments Reaching well beyond standard linear models mixed models enable you to make accurate and precise inferences about your experiments and to gain deeper understanding of sources of signal and noise in the system under study Well formed fixed and random effects generalize well and help you make the best data driven decisions JMP for Mixed Models brings together two of the strongest traditions in SAS software mixed models and JMP JMP's groundbreaking philosophy of tight integration of statistics with dynamic graphics is an ideal milieu within which to learn and apply mixed models also known as hierarchical linear or multilevel models If you are a scientist or engineer the methods described herein can revolutionize how you analyze experimental data without the need to write code Inside you'll find a rich collection of

examples and a step by step approach to mixed model mastery Topics include Learning how to appropriately recognize set up and interpret fixed and random effects Extending analysis of variance ANOVA and linear regression to numerous mixed model designs Understanding how degrees of freedom work using Skeleton ANOVA Analyzing randomized block split plot longitudinal and repeated measures designs Introducing more advanced methods such as spatial covariance and generalized linear mixed models Simulating mixed models to assess power and other important sampling characteristics Providing a solid framework for understanding statistical modeling in general Improving perspective on modern dilemmas around Bayesian methods p values and causal inference *Causal Inference in Statistics, Social, and Biomedical Sciences* Guido W.

Imbens,Donald B. Rubin,2015-04-06 This text presents statistical methods for studying causal effects and discusses how readers can assess such effects in simple randomized experiments *Cystic Fibrosis* Dennis Wat,Dilip Nazareth,2020-07-08 Cystic Fibrosis Heterogeneity and Personalized Treatment provides the latest research and clinical evidence for clinicians scientists and researchers involved in the care of patients with cystic fibrosis CF This book outlines the burden of the CF microbiome utilisation of CF registries to impact future care the sequelae of hepatobiliary complication the use of upcoming technologies to provide patient centred care and provides an overview of cystic fibrosis transmembrane regulator CFTR modulators Looking after patients with CF is highly rewarding allowing those of us to combine our dedication and problem solving skills to create a personalized approach This book is invaluable for those involved in the care of CF patients

Electronic Health Records and Medical Big Data Sharona Hoffman,2016-12-07 This book helps readers gain an in depth understanding of electronic health record EHR systems medical big data and the regulations that govern them It analyzes both the shortcomings and benefits of EHR systems exploring the law s response to the creation of these systems highlighting gaps in the current legal framework and developing detailed recommendations for regulatory policy and technological improvements Electronic Health Records and Medical Big Data addresses not only privacy and security concerns but also other important challenges such as those related to data quality and data analysis In addition the author formulates a large body of recommendations to improve the technology s safety security and efficacy for both clinical and secondary such as research uses of medical data *An Introduction to the Theory of Observational Studies* Paul R.

Rosenbaum,2025-08-02 This book is an introduction to the theory of causal inference in observational studies An observational study draws inferences about the effects caused by treatments or preventable exposures when randomized experimentation is unethical or infeasible An observational study is distinguished from an experiment by the problems that follow from the absence of randomized assignment of individuals to treatments Observational studies are common in most fields that study the effects of treatments or policies on people including public health and epidemiology economics and public policy medicine and clinical psychology and criminology and empirical legal studies After Part I reviews causal inference in randomized experiments the twelve short chapters in Parts II III and IV introduce modern topics the propensity

score ignorable treatment assignment the principal unobserved covariate algorithms for optimal matching randomized reassignment techniques for appraising the covariate balance achieved by matching covariance adjustment sensitivity analysis design sensitivity ways to design an observational study to be insensitive to larger unmeasured biases the large sample efficiency of a sensitivity analysis quasi experimental devices that provide observable information about unmeasured biases evidence factors and complementary analyses to address unmeasured biases The book is accessible to anyone who has completed an undergraduate course in mathematical statistics The subject is developed with the aid of two simple empirical examples concerning the health benefits or harms caused by consuming alcohol The data for these examples and their reanalyses are freely available in an R package iTOS associated with Introduction to the Theory of Observational Studies

Real World Health Care Data Analysis Douglas Faries,Xiang Zhang,Zbigniew Kadziola,Uwe Siebert,Felicitas Kuehne,Robert L Obenchain,Josep Maria Haro,2020-01-15 Discover best practices for real world data research with SAS code and examples Real world health care data is common and growing in use with sources such as observational studies patient registries electronic medical record databases insurance healthcare claims databases as well as data from pragmatic trials This data serves as the basis for the growing use of real world evidence in medical decision making However the data itself is not evidence Analytical methods must be used to turn real world data into valid and meaningful evidence Real World Health Care Data Analysis Causal Methods and Implementation Using SAS brings together best practices for causal comparative effectiveness analyses based on real world data in a single location and provides SAS code and examples to make the analyses relatively easy and efficient The book focuses on analytic methods adjusted for time independent confounding which are useful when comparing the effect of different potential interventions on some outcome of interest when there is no randomization These methods include propensity score matching stratification methods weighting methods regression methods and approaches that combine and average across these methods methods for comparing two interventions as well as comparisons between three or more interventions algorithms for personalized medicine sensitivity analyses for unmeasured confounding

Disruptions as Opportunities Taiyi Sun,2023-03-01 Disruptions as Opportunities Governing Chinese Society with Interactive Authoritarianism addresses the long standing puzzle of why China outlived other one party authoritarian regimes with particular attention to how the state manages an emerging civil society Drawing upon over 1 200 survey responses conducted in 126 villages in the Sichuan province as well as 70 interviews conducted with Civil Society Organization CSO leaders and government officials participant observation and online research the book proposes a new theory of interactive authoritarianism to explain how an adaptive authoritarian state manages nascent civil society Sun argues that when new phenomena and forces are introduced into Chinese society the Chinese state adopts a three stage interactive approach toward societal actors toleration differentiation and legalization without institutionalization Sun looks to three disruptions earthquakes internet censorship and social media based guerrilla resistance to the ride sharing industry to

test his theory about the three stage interactive authoritarian approach and argues that the Chinese government evolves and consolidates its power in moments of crisis

Statistical Hypothesis Testing in Context: Volume 52 Michael P. Fay, Erica H. Brittain, 2022-05-05 Fay and Brittain present statistical hypothesis testing and compatible confidence intervals focusing on application and proper interpretation The emphasis is on equipping applied statisticians with enough tools and advice on choosing among them to find reasonable methods for almost any problem and enough theory to tackle new problems by modifying existing methods After covering the basic mathematical theory and scientific principles tests and confidence intervals are developed for specific types of data Essential methods for applications are covered such as general procedures for creating tests e g likelihood ratio bootstrap permutation testing from models adjustments for multiple testing clustering stratification causality censoring missing data group sequential tests and non inferiority tests New methods developed by the authors are included throughout such as melded confidence intervals for comparing two samples and confidence intervals associated with Wilcoxon Mann Whitney tests and Kaplan Meier estimates Examples exercises and the R package asht support practical use

Handbook of Field Experiments Esther Duflo, Abhijit Banerjee, 2017-03-21 Handbook of Field Experiments provides tactics on how to conduct experimental research also presenting a comprehensive catalog on new results from research and areas that remain to be explored This updated addition to the series includes an entire chapters on field experiments the politics and practice of social experiments the methodology and practice of RCTs and the econometrics of randomized experiments These topics apply to a wide variety of fields from politics to education and firm productivity providing readers with a resource that sheds light on timely issues such as robustness and external validity Separating itself from circumscribed debates of specialists this volume surpasses in usefulness the many journal articles and narrowly defined books written by practitioners Balances methodological insights with analyses of principal findings and suggestions for further research Appeals broadly to social scientists seeking to develop an expertise in field experiments Strives to be analytically rigorous Written in language that is accessible to graduate students and non specialist economists

A Guide to the Scientific Career Mohammadali M. Shoja, Anastasia Arynchyna, Marios Loukas, Anthony V. D'Antoni, Sandra M. Buerger, Marion Karl, R. Shane Tubbs, 2020-01-09 A concise easy to read source of essential tips and skills for writing research papers and career management In order to be truly successful in the biomedical professions one must have excellent communication skills and networking abilities Of equal importance is the possession of sufficient clinical knowledge as well as a proficiency in conducting research and writing scientific papers This unique and important book provides medical students and residents with the most commonly encountered topics in the academic and professional lifestyle teaching them all of the practical nuances that are often only learned through experience Written by a team of experienced professionals to help guide younger researchers A Guide to the Scientific Career Virtues Communication Research and Academic Writing features ten sections composed of seventy four chapters that cover qualities of research scientists career

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Avaliação de Impacto na Prática Paul J. Gertler, Sebastian Martinez, Patrick Premand, Laura B. Rawlings, Christel M. J. Vermeersch, 2015-05-26 O objetivo deste livro fornecer um guia acessível abrangente e claro para a avaliação de impacto O material desde a motivação da avaliação de impacto até as vantagens de diferentes metodologias e custos explicado de forma muito clara e a cobertura impressionante Este livro se tornará um guia muito consultado e utilizado e afetará a formulação de políticas para os próximos anos Orazio Attanasio Professor de Economia University College London Diretor Centro de Avaliação de Políticas de Desenvolvimento Instituto de Estudos Fiscais Reino Unido Este um recurso valioso para quem procura realizar avaliações de impacto no mundo em desenvolvimento abrangendo os aspectos conceituais e práticos envolvidos ilustrados com exemplos de prática recente Michael Kremer Professor de Sociedades em Desenvolvimento Departamento de Economia Universidade de Harvard Estados Unidos Os ingredientes principais para boas avaliações são as metodologias apropriadas à capacidade de resolver problemas práticos tais como coletar dados trabalhar com orçamentos baixos e escrever relatório final e com governos responsáveis Este livro não apenas descreve metodologias técnicas usadas para medir o impacto de programas públicos mas também fornece vários exemplos e nos leva ao mundo real da implementação de avaliações desde o convencimento dos formuladores de políticas até a divulgação dos resultados Se mais profissionais e formuladores de políticas lessem este manual teríamos melhores políticas e resultados em muitos países Se os governos melhorarem a prestação de contas o impacto deste manual será ainda maior Gonzalo Hernández Licona Secretário Executivo Conselho Nacional de Avaliação de Políticas de Desenvolvimento Social CONEVAL México Eu recomendo este livro como um guia claro e acessível para as questões desafiadoras práticas e técnicas enfrentadas na elaboração de avaliações de impacto Ele se baseia em material que tem sido testado em workshops em todo o mundo e deve se mostrar igualmente útil aos profissionais formuladores de políticas e avaliadores Nick York Chefe do Departamento de Avaliação Departamento para o Desenvolvimento Internacional Reino Unido

Unido O conhecimento um dos bens mais valiosos para compreender a natureza complexa do processo de desenvolvimento A
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 desenvolvimento Soraya Rodr guez Ramos Secret ria de Estado para a Coopera o Internacional Espanha *For the Public's
 Health* Institute of Medicine,Board on Population Health and Public Health Practice,Committee on Public Health Strategies
 to Improve Health,2011-05-06 Despite having the costliest medical care delivery system in the world Americans are not
 particularly healthy Recent international comparisons show that life expectancy in the U S ranks 49th among all nations and
 infant mortality rates are higher in the U S than in many far less affluent nations While these statistics are alarming the
 bigger problem is that we do not know how to reverse this trend Our lack of knowledge is due in large part to significant
 inadequacies in the health system for gathering analyzing and communicating health information about the population To
 inform the public health community and all other sectors that contribute to population health For the Public s Health The
 Role of Measurement in Action and Accountability reviews current approaches for measuring the health of individuals and
 communities and creates a roadmap for future development This book the first of three in a series focuses on data and
 measurement not as ends in themselves but rather tools to inform the myriad programs policies and processes developed or
 undertaken by governmental public health agencies and their many partners in the health system For the Public s Health
 seeks to reinstate the proper and evidence based understanding of health as not merely the result of medical or clinical care
 but the result of the sum of what we do as a society to create the conditions in which people can be healthy To achieve this
 goal the book suggests changes in the processes tools and approaches used to gather information about health outcomes and
 their determinants The book also recommends developing an integrated and coordinated system in which all parties
 including governmental and private sector partners at all levels have access to timely and meaningful data to help foster
 individual and community awareness and action **Bayesian Analysis Made Simple** Phil Woodward,2016-04-19 Although
 the popularity of the Bayesian approach to statistics has been growing for years many still think of it as somewhat esoteric
 not focused on practical issues or generally too difficult to understand Bayesian Analysis Made Simple is aimed at those who
 wish to apply Bayesian methods but either are not experts or do not have the time to cre *Impact Evaluation in Practice;La
 Evaluación de Impacto en la Práctica* Paul J. Gertler,Sebastian Martinez,Patrick Premand,Laura B. Rawlings,Christel M. J.
 Vermeersch,2011-06-13 This book offers an accessible introduction to the topic of impact evaluation and its practice in
 development While the book is geared principally towards development practitioners and policymakers designing prospective
 impact evaluations we trust that it will be a valuable resource for students and others interested in using impact evaluation

Prospective impact evaluations should be used selectively to assess whether or not a program has achieved its intended results or to test alternatives for achieving those results. We consider that more and better impact evaluation will help strengthen the evidence base for development policies and programs around the world. If governments and development practitioners can make policy decisions based on evidence including evidence generated through impact evaluation, our hope is that development resources will be spent more effectively and ultimately have a greater impact on reducing poverty and improving people's lives. The three chapters in this handbook provide a non-technical introduction to impact evaluations including Why Evaluate in Chapter 1, How to Evaluate in Chapter 2, and How to Implement Impact Evaluations in Chapter 3. These elements are the basic tools needed in order to successfully carry out an impact evaluation. From a methodological standpoint, our approach to impact evaluation is largely pragmatic; we think that the most appropriate methods should be identified to fit the operational context and not the other way around. This is best achieved at the outset of the program through the design of prospective impact evaluation that can be built into the project's implementation. We argue that gaining consensus between key stakeholders and identifying an evaluation design that fits the political and operational context is as important as the method itself. We also believe strongly that impact evaluations should be upfront about their limitations and caveats. Finally, we strongly encourage policymakers and program managers to consider impact evaluations in a logical framework that clearly sets out the causal pathways by which the program works to produce outputs and influence final outcomes and to combine impact evaluations with monitoring and selected complementary evaluation approaches to gain a full picture of performance. This book builds on a core set of teaching materials developed for the Turning Promises to Evidence workshops organized by the office of the Chief Economist for Human Development HDNCE in partnership with regional units and the Development Economics Research Group DECRG at the World Bank.

Practical Propensity Score Methods Using R Walter Leite, 2016-10-28. *Practical Propensity Score Methods Using R* by Walter Leite is a practical book that uses a step-by-step analysis of realistic examples to help students understand the theory and code for implementing propensity score analysis with the R statistical language. With a comparison of both well-established and cutting-edge propensity score methods, the text highlights where solid guidelines exist to support best practices and where there is scarcity of research. Readers will find that this scaffolded approach to R and the book's free online resources help them apply the text's concepts to the analysis of their own data.

A First Course in Causal Inference Peng Ding, 2024-07-31. The past decade has witnessed an explosion of interest in research and education in causal inference due to its wide applications in biomedical research, social sciences, artificial intelligence, etc. This textbook, based on the author's course on causal inference at UC Berkeley taught over the past seven years, only requires basic knowledge of probability theory, statistical inference, and linear and logistic regressions. It assumes minimal knowledge of causal inference and reviews basic probability and statistics in the appendix. It covers causal inference from a statistical perspective and includes examples and applications.

from biostatistics and econometrics Key Features All R code and data sets available at Harvard Dataverse Solutions manual available for instructors Includes over 100 exercises This book is suitable for an advanced undergraduate or graduate level course on causal inference or postgraduate and PhD level course in statistics and biostatistics departments

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