

CAUSAL INFERENCE

FOR
STATISTICS,
SOCIAL,
AND
BIOMEDICAL
SCIENCES

AN INTRODUCTION

GUIDO W. IMBENS
DONALD B. RUBIN

Causal Inference For Statistics Social And Biomedical Sciences An Introduction

Harold Kincaid, Jeroen Van Bouwel



Causal Inference For Statistics Social And Biomedical Sciences An Introduction:

Causal Inference for Statistics, Social, and Biomedical Sciences Guido W. Imbens, Donald B. Rubin, 2015-04-06 Most questions in social and biomedical sciences are causal in nature what would happen to individuals or to groups if part of their environment were changed In this groundbreaking text two world renowned experts present statistical methods for studying such questions This book starts with the notion of potential outcomes each corresponding to the outcome that would be realized if a subject were exposed to a particular treatment or regime In this approach causal effects are comparisons of such potential outcomes The fundamental problem of causal inference is that we can only observe one of the potential outcomes for a particular subject The authors discuss how randomized experiments allow us to assess causal effects and then turn to observational studies They lay out the assumptions needed for causal inference and describe the leading analysis methods including matching propensity score methods and instrumental variables Many detailed applications are included with special focus on practical aspects for the empirical researcher

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Doing Statistical Analysis Christer Thrane, 2022-07-29

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The Oxford Handbook of Philosophy of Political Science Harold Kincaid, Jeroen Van Bouwel, 2023 The Oxford Handbook of Philosophy of Political Science brings together philosophers of science and political scientists to discuss philosophical issues in political science The book offers twenty seven essays on how to do research in political science the purposes and use of political science in society as well as how to evaluate claims made by political scientists

The Palgrave Companion to Harvard Economics Robert A. Cord, 2024-07-05 Harvard University has been and continues to be one of the most important global centres for economics With three chapters on themes in Harvard economics and 41 chapters on the lives and work of Harvard economists these two volumes show how economics became established at the University how it produced some of the world's best known economists including Joseph Schumpeter Wassily Leontief and John Kenneth Galbraith and how it remains a global force for the very best in teaching and research in economics With original contributions from a stellar cast the volumes provide economists especially those interested in macroeconomics and the history of economic thought with an in depth analysis of Harvard economics

International Encyclopedia of Statistical Science Miodrag Lovric, 2025-06-19 The International Encyclopedia of Statistical Science stands as a monumental effort to enrich statistics education globally particularly in regions facing educational challenges By amalgamating the expertise of over 700 authors from 110 countries including Nobel Laureates and presidents of statistical societies it offers an unparalleled resource for readers worldwide This encyclopedia is not just a collection of entries it is a concerted effort to revive statistics as a vibrant critical field of study and application Providing a comprehensive and accessible account of statistical terms methods and applications it enables readers to gain a quick insight into the subject regardless of their background This work serves to refresh and expand the knowledge of researchers managers and practitioners highlighting the relevance and applicability of statistics across various fields from economics and business to healthcare and public policy Furthermore it aims to inspire students by demonstrating the significance of statistics in solving real world problems thus encouraging a new generation to explore and contribute to the field

Causality from the Point of View of Statistics José A. Ferreira, 2023-08-21 Most are familiar with the adage correlation does not imply causation Since much of science is concerned with problems of causality and statistics is so widely used in research one may wonder whether statistics possesses the tools to study such problems and contribute to their resolution

These were the questions posed over thirty years ago by Pearl Robins Rubin Shafer etc when they set out to incorporate notions of causality into statistics theory and develop methods for estimating causal relationships Since then the schools of statistical causality they founded have produced interesting results and methods that help us think about causality and are potentially useful in real life problems Yet despite its appeal statistical causality is still disregarded by many mainstream statisticians and its methods are not widely known In part this is explained by the unorthodox and apparently disparate character of the various schools in particular by the distinct languages they developed and that are not readily accessible Thus even some advanced researchers seemed startled by things like Rubin s counterfactuals that in one guise or another appear in all theories but that seem potentially incompatible with Kolmogorov s formalism the very foundation of statistics It turns out that statistical causality is firmly rooted in Kolmogorov s axiomatization of probability as the elements required by it are essentially those proposed a century ago by Steinhaus and perhaps surprisingly that statistics has always engaged with causality The present book makes this plain providing a basis for statistical causality that subsumes and reconciles the theories of all other schools and that to a mainstream statistician will appear entirely familiar and natural

Handbook Of Medical Statistics Ji-qian Fang, 2017-07-28 This unique volume focuses on the tools of medical statistics It contains over 500 concepts or methods all of which are explained very clearly and in detail Each chapter focuses on a specific field and its applications There are about 20 items in each chapter with each item independent of one another and explained within one page plus references The structure of the book makes it extremely handy for solving targeted problems in this area As the goal of the book is to encourage students to learn more combinatorics every effort has been made to provide them with a not only useful but also enjoyable and engaging reading This handbook plays the role of tutor or advisor for teaching and further learning It can also be a useful source for MOOC style teaching

Machine Learning for Civil and Environmental Engineers M. Z. Naser, 2023-07-17 Accessible and practical framework for machine learning applications and solutions for civil and environmental engineers This textbook introduces engineers and engineering students to the applications of artificial intelligence AI machine learning ML and machine intelligence MI in relation to civil and environmental engineering projects and problems presenting state of the art methodologies and techniques to develop and implement algorithms in the engineering domain Through real world projects like analysis and design of structural members optimizing concrete mixtures for site applications examining concrete cracking via computer vision evaluating the response of bridges to hazards and predicating water quality and energy expenditure in buildings this textbook offers readers in depth case studies with solved problems that are commonly faced by civil and environmental engineers The approaches presented range from simplified to advanced methods incorporating coding based and coding free techniques Professional engineers and engineering students will find value in the step by step examples that are accompanied by sample databases and codes for readers to practice with Written by a highly qualified professional with significant experience in the field Machine Learning includes valuable

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The Cumulative Book Index ,1988 A world list of books in the English language **Current Index to Statistics, Applications, Methods and Theory** ,1985 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields Explanation in Causal Inference Tyler J. VanderWeele,2015 A comprehensive examination of methods for mediation and interaction VanderWeele s book is the first to approach this topic from the perspective of causal inference Numerous software tools are provided and the text is both accessible and easy to read with examples drawn from diverse fields The result is an essential reference for anyone conducting empirical research in the biomedical or social sciences **Observation and Experiment** Paul Rosenbaum,2017-08-14 In the face of conflicting claims about some treatments behaviors and policies the question arises What is the most scientifically rigorous way to draw conclusions about cause and effect in the study of humans In this introduction to causal inference Paul Rosenbaum explains key concepts and methods through real world examples **Journal of Economic Literature** ,1986 **Review of Personality and Social Psychology** Ladd Wheeler,1981-07-01 The first volume of the Review of Personality and Social Psychology focusses on the frontiers of theory and method in personality and social psychology The international contributors summarize and integrate established areas and explore those emerging topics which have a sufficient base of theoretical and empirical work Compared with reviews of more traditional topics the present contributions are not so heavily weighted with research findings which makes for a more fluent style and greater scope for speculative comment Personality Individual Differences Vol 4 1983 **Sociological Abstracts** Leo P. Chall,2002 CSA Sociological Abstracts abstracts and indexes the international literature in sociology and related disciplines in the social and behavioral sciences The database provides abstracts of journal articles and citations to book reviews drawn from over 1 800 serials publications and also provides abstracts of books book chapters dissertations and conference papers *Multiple Regression in Behavioral Research* Elazar J. Pedhazur,1997 This text adopts a data analysis approach to multiple regression The author integrates design and analysis and emphasises learning by example and critiquing published research

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