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# Bias and Causation

*Models and  
Judgment  
for Valid  
Comparisons*

Herbert I. Weisberg

WILEY

# Bias And Causation Models And Judgment For Valid Comparisons

**Michael Hoelscher**

## **Bias And Causation Models And Judgment For Valid Comparisons:**

**Bias and Causation** Herbert I. Weisberg, 2011-01-06 A one of a kind resource on identifying and dealing with bias in statistical research on causal effects Do cell phones cause cancer Can a new curriculum increase student achievement Determining what the real causes of such problems are and how powerful their effects may be are central issues in research across various fields of study Some researchers are highly skeptical of drawing causal conclusions except in tightly controlled randomized experiments while others discount the threats posed by different sources of bias even in less rigorous observational studies Bias and Causation presents a complete treatment of the subject organizing and clarifying the diverse types of biases into a conceptual framework The book treats various sources of bias in comparative studies both randomized and observational and offers guidance on how they should be addressed by researchers Utilizing a relatively simple mathematical approach the author develops a theory of bias that outlines the essential nature of the problem and identifies the various sources of bias that are encountered in modern research The book begins with an introduction to the study of causal inference and the related concepts and terminology Next an overview is provided of the methodological issues at the core of the difficulties posed by bias Subsequent chapters explain the concepts of selection bias confounding intermediate causal factors and information bias along with the distortion of a causal effect that can result when the exposure and or the outcome is measured with error The book concludes with a new classification of twenty general sources of bias and practical advice on how mathematical modeling and expert judgment can be combined to achieve the most credible causal conclusions Throughout the book examples from the fields of medicine public policy and education are incorporated into the presentation of various topics In addition six detailed case studies illustrate concrete examples of the significance of biases in everyday research Requiring only a basic understanding of statistics and probability theory Bias and Causation is an excellent supplement for courses on research methods and applied statistics at the upper undergraduate and graduate level It is also a valuable reference for practicing researchers and methodologists in various fields of study who work with statistical data This book was selected as the 2011 Ziegel Prize Winner in Technometrics for the best book reviewed by the journal It is also the winner of the 2010 PROSE Award for Mathematics from The American Publishers Awards for Professional and Scholarly Excellence

*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 **Critical Thinking in Clinical Research** Felipe Fregni,Ben M.W. Illigens,2018-03-13 One of the most crucial skills a clinician scientist or student can learn is to create conduct and interpret the conclusions of a clinical study Critical Thinking in Clinical Research teaches these fundamentals in four distinct sections called units the first unit focuses on issues surrounding the design of a study such as population question selection randomization and blinding Unit 2 presents statistical methods such as analyzing data collected how to present and discuss the data concisely the third unit covers practical aspects such as methodology organizational considerations principles of trial conduct and reporting and the final unit delves into study designs providing the advantages and drawbacks of each design style Each chapter begins with a short introduction followed by a hypothetical case that challenges the reader to make decisions to consider pros and cons of specific approaches and to evaluate options based on specific conditions Knowing how to critically read and understand scientific papers and to collect analyze and interpret research data which they in turn can then present in their own scientific manuscript makes this book the perfect resource for anyone looking to contribute to the wealth of scientific and medical inquiry

**Handbook of Research Methods in Consumer Psychology** Frank Kardes,Paul M. Herr,Norbert Schwarz,2019-04-15 What impact can various research methods have on consumer psychology How can they help us understand the workings of the consumer mind And how can the field of consumer psychology best utilize these methods In the Handbook of Research Methods in Consumer Psychology leading consumer psychologists summarize key aspects of the research process and explain how different methods enrich understanding of how consumers process information to form judgments and opinions and to make consumption related decisions Kardes Herr and Schwarz provide an in depth analysis of the scientific research methods needed to understand consumption related judgments and decisions The book is split into five parts demonstrating the breadth of the volume classic approaches contemporary approaches online research methods data analysis and philosophy of science A variety of leading researchers give insight into a wide range of topics reflecting both long standing debate and more recent developments in the field to encourage discussion and the advancement of consumer research The Handbook of Research Methods in Consumer Psychology is essential reading for researchers students and professionals interested in consumer psychology and behavior **Electronic Health Records and Medical Big Data** Sharona Hoffman,2016-12-07 This book provides interdisciplinary analysis of electronic health record systems and medical big data offering a wealth of technical legal and policy insights **Portfolio Management under Stress** Riccardo Rebonato,Alexander Denev,2013 A rigorous

presentation of a novel methodology for asset allocation in financial portfolios under conditions of market distress

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