



# Counterfactuals and Causal Inference

Methods and Principles for Social Research

SECOND EDITION

STEPHEN L. MORGAN  
CHRISTOPHER WINSHIP

# Counterfactuals And Causal Inference Counterfactuals And Causal Inference

**Stephen L. Morgan, Christopher  
Winship**



## **Counterfactuals And Causal Inference Counterfactuals And Causal Inference:**

*Counterfactuals and Causal Inference* Stephen L. Morgan, Christopher Winship, 2015 This new edition aims to convince social scientists to take a counterfactual approach to the core questions of their fields

**Counterfactuals and Causal Inference** Stephen L. Morgan, Christopher Winship, 2014-11-17 In this second edition of *Counterfactuals and Causal Inference* completely revised and expanded the essential features of the counterfactual approach to observational data analysis are presented with examples from the social demographic and health sciences Alternative estimation techniques are first introduced using both the potential outcome model and causal graphs after which conditioning techniques such as matching and regression are presented from a potential outcomes perspective For research scenarios in which important determinants of causal exposure are unobserved alternative techniques such as instrumental variable estimators longitudinal methods and estimation via causal mechanisms are then presented The importance of causal effect heterogeneity is stressed throughout the book and the need for deep causal explanation via mechanisms is discussed

**Counterfactuals and Causal Inference** Stephen L. Morgan, Christopher Winship, 2007-07-30 Did mandatory busing programs in the 1970s increase the school achievement of disadvantaged minority youth Does obtaining a college degree increase an individual's labor market earnings Did the use of the butterfly ballot in some Florida counties in the 2000 presidential election cost Al Gore votes If so was the number of miscast votes sufficiently large to have altered the election outcome At their core these types of questions are simple cause and effect questions Simple cause and effect questions are the motivation for much empirical work in the social sciences This book presents a model and set of methods for causal effect estimation that social scientists can use to address causal questions such as these The essential features of the counterfactual model of causality for observational data analysis are presented with examples from sociology political science and economics

Artificial Intelligence and Causal Inference Momiao Xiong, 2022-02-03 Artificial Intelligence and Causal Inference address the recent development of relationships between artificial intelligence AI and causal inference Despite significant progress in AI a great challenge in AI development we are still facing is to understand mechanism underlying intelligence including reasoning planning and imagination Understanding transfer and generalization are major principles that give rise intelligence One of a key component for understanding is causal inference Causal inference includes intervention domain shift learning temporal structure and counterfactual thinking as major concepts to understand causation and reasoning Unfortunately these essential components of the causality are often overlooked by machine learning which leads to some failure of the deep learning AI and causal inference involve 1 using AI techniques as major tools for causal analysis and 2 applying the causal concepts and causal analysis methods to solving AI problems The purpose of this book is to fill the gap between the AI and modern causal analysis for further facilitating the AI revolution This book is ideal for graduate students and researchers in AI data science causal inference statistics genomics bioinformatics and precision medicine Key Features Cover three types of neural

networks formulate deep learning as an optimal control problem and use Pontryagin's Maximum Principle for network training Deep learning for nonlinear mediation and instrumental variable causal analysis Construction of causal networks is formulated as a continuous optimization problem Transformer and attention are used to encode decode graphics RL is used to infer large causal networks Use VAE GAN neural differential equations recurrent neural network RNN and RL to estimate counterfactual outcomes AI based methods for estimation of individualized treatment effect in the presence of network interference

**The Philosophy of Causality in Economics** Mariusz Maziarz, 2020-05-13 Approximately one in six top economic research papers draws an explicitly causal conclusion But what do economists mean when they conclude that A causes B Does cause say that we can influence B by intervening on A or is it only a label for the correlation of variables Do quantitative analyses of observational data followed by such causal inferences constitute sufficient grounds for guiding economic policymaking The Philosophy of Causality in Economics addresses these questions by analyzing the meaning of causal claims made by economists and the philosophical presuppositions underlying the research methods used The book considers five key causal approaches the regularity approach probabilistic theories counterfactual theories mechanisms and interventions and manipulability Each chapter opens with a summary of literature on the relevant approach and discusses its reception among economists The text details case studies and goes on to examine papers which have adopted the approach in order to highlight the methods of causal inference used in contemporary economics It analyzes the meaning of the causal claim put forward and finally reconstructs the philosophical presuppositions accepted implicitly by economists The strengths and limitations of each method of causal inference are also considered in the context of using the results as evidence for policymaking This book is essential reading to those interested in literature on the philosophy of economics as well as the philosophy of causality and economic methodology in general

**Causality** Carlo Berzuini, Philip Dawid, Luisa Bernardinell, 2012-06-04 A state of the art volume on statistical causality Causality Statistical Perspectives and Applications presents a wide ranging collection of seminal contributions by renowned experts in the field providing a thorough treatment of all aspects of statistical causality It covers the various formalisms in current use methods for applying them to specific problems and the special requirements of a range of examples from medicine biology and economics to political science This book Provides a clear account and comparison of formal languages concepts and models for statistical causality Addresses examples from medicine biology economics and political science to aid the reader's understanding Is authored by leading experts in their field Is written in an accessible style Postgraduates professional statisticians and researchers in academia and industry will benefit from this book

**A Tale of Two Cultures** Gary Goertz, James Mahoney, 2012-09-09 Some in the social sciences argue that the same logic applies to both qualitative and quantitative methods In A Tale of Two Cultures Gary Goertz and James Mahoney demonstrate that these two paradigms constitute different cultures each internally coherent yet marked by contrasting norms practices and toolkits They identify and discuss major differences between these two traditions

that touch nearly every aspect of social science research including design goals causal effects and models concepts and measurement data analysis and case selection Although focused on the differences between qualitative and quantitative research Goertz and Mahoney also seek to promote toleration exchange and learning by enabling scholars to think beyond their own culture and see an alternative scientific worldview This book is written in an easily accessible style and features a host of real world examples to illustrate methodological points *Causality for Artificial Intelligence* Jordi

Vallverdú,2024-06-28 How can we teach machine learning to identify causal patterns in data This book explores the very notion of causality identifying from a naturalistic and evolutionary perspective how living systems deal with causal relationships At the same time using this knowledge to identify the best ways to apply such biological models in machine learning scenarios One of the more fundamental challenges for AI experts is to design machines that can understand the world identifying the basic rules that govern reality Statistics are powerful and fundamental for this process but they are only one of the necessary tools Counterfactual thinking is the other part of the necessary process that will help machines to become intelligent This book explains the paths that can lead to algorithmic causality It is essential reading for those who are not afraid of thinking at the interface of various academic disciplines or fields AI machine learning philosophy neuroscience anthropology psychology computer sciences and who are interested in the analysis of causal thinking and the ways in which cognitive systems natural or artificial can act in order to understand their environment Professor Vallverdú is currently working on biomimetic cognitive architectures and multicognitive systems His research has explored two main areas epistemology and cognition Since his early Ph D research on epistemic controversies he has analyzed several aspects of computational epistemology His latest research has focused on the causal challenges of machine learning techniques particularly deep learning One of his most promising advances is statistics meets causal graph reasoning via Directed Acyclic Graphs which still has several conceptual paths that need to be explored and identified Counterfactual reasoning is a fundamental part of these open debates which are under the analysis of Prof Vallverdú His current research is supported as part of the following projects GEHUCT and ICREA Acad mia [The Oxford Handbook of Philosophy of Social Science](#) Harold

Kincaid,2012-08-23 The philosophy of the social sciences considers the underlying explanatory powers of the social or human sciences such as history economics anthropology politics and sociology The type of questions covered includes the methodological the nature of observations laws theories and explanations to the ontological whether or not these sciences can explain human nature in a way consistent with common sense beliefs This Handbook is a major comprehensive look at the key ideas in the field is guided by several principles The first is that the philosophy of social science should be closely connected to and informed by developments in the sciences themselves The second is that the volume should appeal to practicing social scientists as well as philosophers with the contributors being both drawn from both ranks and speaking to ongoing controversial issues in the field Finally the volume promotes connections across the social sciences with greater

internal discussion and interaction across disciplinary boundaries      **ECAI 2023** K. Gal,A. Nowé,G.J. Nalepa,2023-10-18 Artificial intelligence or AI now affects the day to day life of almost everyone on the planet and continues to be a perennial hot topic in the news This book presents the proceedings of ECAI 2023 the 26th European Conference on Artificial Intelligence and of PAIS 2023 the 12th Conference on Prestigious Applications of Intelligent Systems held from 30 September to 4 October 2023 and on 3 October 2023 respectively in Krak w Poland Since 1974 ECAI has been the premier venue for presenting AI research in Europe and this annual conference has become the place for researchers and practitioners of AI to discuss the latest trends and challenges in all subfields of AI and to demonstrate innovative applications and uses of advanced AI technology ECAI 2023 received 1896 submissions a record number of which 1691 were retained for review ultimately resulting in an acceptance rate of 23% The 390 papers included here cover topics including machine learning natural language processing multi agent systems and vision and knowledge representation and reasoning PAIS 2023 received 17 submissions of which 10 were accepted after a rigorous review process Those 10 papers cover topics ranging from fostering better working environments behavior modeling and citizen science to large language models and neuro symbolic applications and are also included here Presenting a comprehensive overview of current research and developments in AI the book will be of interest to all those working in the field      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      **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

**Probabilistic and Causal Inference** Hector Geffner, Rina Dechter, Joseph Halpern, 2022-03-10 Professor Judea Pearl won the 2011 Turing Award for fundamental contributions to artificial intelligence through the development of a calculus for probabilistic and causal reasoning This book contains the original articles that led to the award as well as other seminal works divided into four parts heuristic search probabilistic reasoning causality first period 1988 2001 and causality recent period 2002 2020 Each of these parts starts with an introduction written by Judea Pearl The volume also contains original contributed articles by leading researchers that analyze extend or assess the influence of Pearl's work in different fields from AI Machine Learning and Statistics to Cognitive Science Philosophy and the Social Sciences The first part of the volume includes a biography a transcript of his Turing Award Lecture two interviews and a selected bibliography annotated by him

**A Theory of Causation in the Social and Biological Sciences** A. Reutlinger, 2013-03-18 This first full length treatment of interventionist theories of causation in the social sciences the biological sciences and other higher level sciences presents original counter arguments to recent trends in the debate and serves as useful introduction to the subject

**Neural Information Processing** Mohammad Tanveer, Sonali Agarwal, Seiichi Ozawa, Asif Ekbal, Adam Jatowt, 2023-04-13 The four volume set CCIS 1791 1792 1793 and 1794 constitutes the refereed proceedings of the 29th International Conference on Neural Information Processing ICONIP 2022 held as a virtual event November 22 26 2022 The 213 papers presented in the proceedings set were carefully reviewed and selected from 810 submissions They were organized in topical sections as follows Theory and Algorithms Cognitive Neurosciences Human Centered Computing and Applications The ICONIP conference aims to provide a leading international forum for researchers scientists and industry professionals who are working in neuroscience neural networks deep learning and related fields to share their new ideas progress and achievements

*Causality in the Sciences* Phyllis McKay Illari, Federica Russo, Jon Williamson, 2011-03-17 Why do ideas of how mechanisms relate to causality and probability differ so much across the sciences Can progress in understanding the tools of causal inference in some sciences lead to progress in others This book tackles these questions and others concerning the use of causality in the sciences

**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

*Fairness and Machine Learning* Solon Barocas, Moritz Hardt, Arvind Narayanan, 2023-12-19 An introduction to the intellectual foundations and practical utility of the recent work on fairness and machine learning Fairness and Machine Learning introduces advanced undergraduate and graduate students to the intellectual foundations of this recently emergent field drawing on a diverse range of disciplinary perspectives to identify the opportunities and hazards of automated decision making It surveys the risks in many applications of machine learning and provides a review of an emerging set of proposed solutions showing how even well intentioned applications may give rise to objectionable results It covers the statistical and causal measures used to evaluate the fairness of machine learning models as well as the procedural and substantive aspects of decision making that are core to debates about fairness including a review of legal and philosophical perspectives on discrimination This incisive textbook prepares students of machine learning to do quantitative work on fairness while reflecting critically on its foundations and its practical utility Introduces the technical and normative foundations of fairness in automated decision making Covers the formal and computational methods for characterizing and addressing problems Provides a critical assessment of their intellectual foundations and practical utility Features rich pedagogy and extensive instructor resources

**Computational Science and Its Applications - ICCSA 2025** Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, Yeliz Karaca, David Taniar, Ana Maria A. C. Rocha, Bernady O. Apduhan, 2025-06-27 The three volumes LNCS 15648 15649 15650 set constitutes the refereed proceedings of the 25th International Conference on Computational Science and Its Applications ICCSA 2025 held in Istanbul Turkey during June 30 July 3 2025 The 71 full papers 6 short papers and 1 PHD showcase paper were carefully reviewed and selected from 269 submissions The papers have been organized in topical sections as follows Part I Computational Methods Algorithms and Scientific Applications High Performance Computing and Networks Geometric Modeling Graphics and Visualization Advanced and Emerging Applications Information Systems and Technologies Urban and Regional Planning Part II Information Systems and Technologies Part III Information Systems and Technologies Urban and Regional Planning PHD Showcase Paper Short papers

*The Rowman & Littlefield Handbook for Critical Thinking* Noel Hendrickson, Kirk Amant, William Hawk, William O'Meara, Daniel Flage, 2008-02-08 Just as The Elements of Style provides a quick and authoritative reference for writers The Rowman Littlefield Handbook for Critical Thinking provides a quick and authoritative



reference for issues regarding reasoning The Handbook provides clear and succinct discussions of the following issues Issues germane to clarifying sentences ambiguity vagueness and propositional attitudes General discussions of descriptions explanations and arguments Criteria for evaluating observational statements and testimony Categorical syllogisms including issues germane to both the Boolean and Aristotelian interpretations A complete system of propositional logic and a brief discussion of the use of truth tables Induction generalization and particularization arguments analogies arguments to the best explanation Mill's Methods counterfactual reasoning and making decisions under risk and uncertainty A brief discussion of the principle formulas involved in calculating probabilities An extended discussion of informal fallacies An essay on the relationship between critical thinking and writing

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