



# Counterfactuals and Causal Inference

Methods and Principles for Social Research

SECOND EDITION

**STEPHEN L. MORGAN**  
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# Counterfactuals And Causal Inference Counterfactuals And Causal Inference

**Ian Pickup**



## **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

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

**ECAI 2023** Kobi Gal, Ann Nowé, Grzegorz J. Nalepa, Roy Fairstein, Roxana Radulescu, 2023-10-15 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

*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

**Impact Evaluation in Practice** Sebastian Martinez, 2011 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

An Introduction to Causal Inference ,2009 This paper summarizes recent advances in causal inference and underscores the paradigmatic shifts that must be undertaken in moving from traditional statistical analysis to causal analysis of multivariate data Special emphasis is placed on the assumptions that underly all causal inferences the languages used in formulating those assumptions the conditional nature of all causal and counterfactual claims and the methods that have been developed for the assessment of such claims These advances are illustrated using a general theory of causation based on the Structural Causal Model SCM described in Pearl 2000a which subsumes and unifies other approaches to causation and provides a coherent mathematical foundation for the analysis of causes and counterfactuals In particular the paper surveys the development of mathematical tools for inferring from a combination of data and assumptions answers to three types of causal queries 1 queries about the effects of potential interventions also called causal effects or policy evaluation 2 queries about probabilities of counterfactuals including

assessment of regret attribution or causes of effects and 3 queries about direct and indirect effects also known as mediation. Finally the paper defines the formal and conceptual relationships between the structural and potential outcome frameworks and presents tools for a symbiotic analysis that uses the strong features of both.

**Handbook of Education Policy Research** Gary Sykes, Barbara Schneider, David N. Plank, 2012-09-10 Co published by Routledge for the American Educational Research Association AERA Educational policy continues to be of major concern. Policy debates about economic growth and national competitiveness for example commonly focus on the importance of human capital and a highly educated workforce. Defining the theoretical boundaries and methodological approaches of education policy research are the two primary themes of this comprehensive AERA sponsored Handbook. Organized into seven sections the Handbook focuses on 1 disciplinary foundations of educational policy 2 methodological perspectives 3 the policy process 4 resources management and organization 5 teaching and learning policy 6 actors and institutions and 7 education access and differentiation. Drawing from multiple disciplines the Handbook's over one hundred authors address three central questions: What policy issues and questions have oriented current policy research? What research strategies and methods have proven most fruitful? And what issues, questions and methods will drive future policy research? Topics such as early childhood education, school choice, access to higher education, teacher accountability and testing and measurement cut across the 63 chapters in the volume. The politics surrounding these and other issues are objectively analyzed by authors and commentators. Each of the seven sections concludes with two commentaries by leading scholars in the field. The first considers the current state of policy design and the second addresses the current state of policy research. This book is appropriate for scholars and graduate students working in the field of education policy and for the growing number of academic government and think tank researchers engaged in policy research. For more information on the American Educational Research Association please visit <http://www.aera.net>.

**Causal Inference in Longitudinal Studies** Zhuo Yu, 2002

**An Introduction to Causal Inference** Judea Pearl, 2015 This paper summarizes recent advances in causal inference and underscores the paradigmatic shifts that must be undertaken in moving from traditional statistical analysis to causal analysis of multivariate data. Special emphasis is placed on the assumptions that underlie all causal inferences, the languages used in formulating those assumptions, the conditional nature of all causal and counterfactual claims, and the methods that have been developed for the assessment of such claims. These advances are illustrated using a general theory of causation based on the Structural Causal Model (SCM) described in Pearl 2000a, which subsumes and unifies other approaches to causation and provides a coherent mathematical foundation for the analysis of causes and counterfactuals. In particular, the paper surveys the development of mathematical tools for inferring from a combination of data and assumptions, answers to three types of causal queries: 1 queries about the effects of potential interventions, also called causal effects or policy evaluation; 2 queries about probabilities of counterfactuals, including assessment of regret, attribution or causes of effects; and 3 queries about direct and indirect effects, also known as

mediation Finally the paper defines the formal and conceptual relationships between the structural and potential outcome frameworks and presents tools for a symbiotic analysis that uses the strong features of both The tools are demonstrated in the analyses of mediation causes of effects and probabilities of causation p 1

**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

**Machine Learning, ECML- ...**, 2003 Causality in the Sciences Phyllis Illari, Federica Russo, Jon Williamson, 2011-03-17 There is a need for integrated thinking about causality probability and mechanisms in scientific methodology Causality and probability are long established central concepts in the sciences with a corresponding philosophical literature examining their problems On the other hand the philosophical literature examining mechanisms is not long established and there is no clear idea of how mechanisms relate to causality and probability But we need some idea if we are to understand causal inference in the sciences a panoply of disciplines ranging from epidemiology to biology from econometrics to physics routinely make use of probability statistics theory and mechanisms to infer causal relationships These disciplines have developed very different methods where causality and probability often seem to have different understandings and where the mechanisms involved often look very different This variegated situation raises the question of whether the different sciences are really using different concepts or whether progress in understanding the tools of causal inference in some sciences can lead to progress in other sciences The book tackles these questions as well as others concerning the use of causality in the sciences

**Recueil. Documentation sur Kazimir Malevitch**, Journal of the American Statistical Association, 2009 **On the Role of Counterfactuals in Inferring Causal Effects of Treatments** Jochen Kluve, 2001 **Knowledge Discovery in Databases: PKDD ...**, 2003 **Causality and Probability in the Sciences** Federica Russo, Jon Williamson, 2007 Causal inference is perhaps the most important form of reasoning in the sciences A panoply of disciplines ranging from epidemiology to biology from econometrics to physics make use of probability and statistics in order to infer causal relationships However the very foundations of causal inference are up in the air it is by no means clear which methods of causal inference should be

used nor why they work when they do This book brings philosophers and scientists together to tackle these important questions The papers in this volume shed light on the relationship between causality and probability and the application of these concepts within the sciences With its interdisciplinary perspective and its careful analysis Causality and Probability in the Sciences heralds the transition of causal inference from an art to a science **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 **International Encyclopedia of the Social & Behavioral Sciences** Neil J. Smelser, Paul B. Baltes, 2001 The largest work ever published in the social and behavioural sciences It contains 4000 signed articles 15 million words of text 90 000 bibliographic references and 150 biographical entries

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### Counterfactuals And Causal Inference Counterfactuals And Causal Inference Introduction

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