Case Studies And Causal Inference An Integrative Framework

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14. Causal Inference, Part 1 CACM Mar. 2019 - The Seven Tools of Causal Inference *Science Before Statistics: Causal Inference Stephen Bates: Causal Inference in Genetic Trio studies* **Causality in Epidemiology** Basics of Causal Case Study Methods Causal Inference of Longitudinal Exposures, presented by Dr. Mireille Schnitzer **Statistical Rethinking Winter 2019 Lecture 06** Problems in causal inference *15. Causal Inference, Part 2* Causal Inference in Data Science From Prediction to Causation by Amit Sharma | DataEngConf NYC '16 Andrew Gelman: 100 Stories of Causal Inference **PyData Tel Aviv Meetup: Introduction to Causal Inference in Time Series Data - Shay Palachy The Comeback Kid Pt. 2 - The Incredible Suffering And Amazing Comeback Of Job | Dr. Michael Maiden** Counterfactuals: Causal Inference Bootcamp Distinguished Theme Seminar Series: Donald Rubin Bayes theorem, the geometry of changing beliefs Cracking A/B Testing Problems in Data Science Interviews | Product Sense | Case Interview *Inferring the effect of an event using CausalImpact by Kay Brodersen* The Logic of Instrumental Variables: Causal Inference Bootcamp

Interviewing with McKinsey: Case study interview #60 Geometric Deep Learning Blueprint (Special Edition) *What is causal inference, and why should data scientists know? by Ludvig Hult* Foundations of causal inference and its impacts on machine learning webinar \"*Causal Inference and Causal Discovery in Climate Science*\" *Machine Learning and Causal Inference Causal inference with binary outcomes subject to both missingness and misclassification - Grace Yi* Types of Case Study. Part 1 of 3 on Case Studies *Causal Representation Learning* Causal Inference in Tech Case Studies And Causal Inference

It argues that methods can be productively combined using the framework of integrative multi-method research, with one method used to carry out a final causal inference ... and comparative case study ...

Combining Qualitative and Quantitative Tools

Causal inference is a method of analysis that considers the assumptions, study designs and estimation ... "While our research is an important use case, there is tremendous potential to repurpose ...

IBM's aims to replace best guesses with data based decisions via new causal inference toolkit

Further, the authors of the 2017 study acknowledged that "statements in the paper could have been misleading by implying a causal inference ... Caster Semenya in the case described above.

Admission Of Error In Caster Semenya Case Is Long Overdue

This course is available on the MSc in Comparative Politics, MSc in Development Management, MSc in Development Studies ... our common-sense understandings of inference and hone our intuition when ...

Bayesian Reasoning for Qualitative Social Science: A modern approach to case study inference

The RCT offers a number of important advantages, not least the belief, assuming careful attention to eligibility criteria and the rigor of the study protocol ... In addition to the techniques for ...

Asking Causal Questions of Observational Data: The Quest Continues

Qualitative studies also often include a cross-case component. This is true for both small-N ... we suggest that counterfactual analyses are an important mode of causal inference within the ...

A Tale of Two Cultures: Qualitative and Quantitative Research in the Social Sciences

Although observational studies, such as prospective cohort studies and case-control studies ... is a relatively new form of evidence synthesis and causal inference that is of growing importance in ...

Mendelian randomization

The study, published in 2017 ... was "exploratory" and "could have been misleading by implying a causal inference." The study was used to implement regulations in 2018 that restrict ...

Scientists correct study that limited some female runners

Examining the supposition that local-scale competition drives macroevolutionary patterns has become a familiar goal in fossil biodiversity studies. However, it is an elusive goal, hampered by ...

When fossil clades 'compete': local dominance, global diversification dynamics and causation

We acknowledge that our 2017 study was exploratory.' They added: 'With this in mind, we recognise that statements in the paper could have been misleading by implying a causal inference.

Caster Semenya's lawyers want answers for 'misleading' study

Students will also understand the limitations of data. Course introduction Simple linear regression Multiple linear regression, interpretation, and basic inference Readings: JWHT, sections 3.1, 3.2, 3 ...

MSIT 423: Data Science for Business Intelligence

and causal inference). Expertise in and ability to work with multidisciplinary research teams is expected. Candidates should have a strong record of research in biostatistics in one or more of: ...

A discussion of the case study method which develops an integrative framework for causal inference in small-n research. This framework is applied to research design tasks such as case selection and process tracing. The book presents the basics, state-of-the-art and arguments for improving the case study method and empirical small-n research.

An innovative and accessible textbook on multimethod and case-study research Multimethod research has become indispensable to doing social science, and is essential to anyone who conducts large-scale research projects in political science, sociology, education, comparative law, or business. This authoritative and accessible book offers the first truly comprehensive approach to multimethod and case-study research, and is particularly aimed at students of qualitative methods in the social sciences. Walking step-by-step through these cutting-edge tools and techniques, Gary Goertz introduces a new integrated approach that unites three corners of a powerful research triad—causal mechanisms, cross-case causal inference, and within-case causal inference. He explains how the investigation of causal mechanisms and the making of within-case causal inference are the central goals of multimethod and case study research, and provides a logic for connecting case studies and causal mechanism analysis with cross-case analysis, whether they are statistical analyses, experiments, or QCA. In addition, Goertz analyzes how one can generalize using case studies, as well as systematically test game-theoretic and other models using multiple case studies. Provides a fully integrated approach to multimethod and case-study research An essential resource for students and researchers in political science, sociology, education, law, and business Covers constraint causal mechanism, game theory and case studies, QCA, and the use of case studies to systematically test and generalize theories An ideal textbook for a first-year graduate course in methods or research design

An introduction to causal case study methods, complete with step-by-step guidelines and examples

A Handbook for Social Science Field Research: Essays & Bibliographic Sources on Research Design and Methods provides both novice and experienced scholars with valuable insights to a select list of critical texts pertaining to a wide array of social science methods useful when doing fieldwork. Through essays on ethnography to case study, archival research, oral history, surveys, secondary data analysis, and ethics, this refreshing new collection offers "tales from the field" by renowned scholars across various disciplines.

The classic work on qualitative methods in political science Designing Social Inquiry presents a unified approach to qualitative and quantitative research in political science, showing how the same logic of inference underlies both. This stimulating book discusses issues related to framing research questions, measuring the accuracy of data and the uncertainty of empirical inferences, discovering causal effects, and getting the most out of qualitative research. It addresses topics such as interpretation and inference, comparative case studies, constructing causal theories, dependent and explanatory variables, the limits of random selection, selection bias, and errors in measurement. The book only uses mathematical notation to clarify concepts, and assumes no prior knowledge of mathematics or statistics. Featuring a new preface by Robert O. Keohane and Gary King, this edition makes an influential work available to new generations of qualitative researchers in the social sciences.

Designing Case Studies explores three different ways of conducting causal analysis in case studies: co-variational analysis, causal-process tracing and congruence analysis. It is an inclusive account of case study methodology which covers all the major explanatory approaches, and is also the first book to present congruence analysis in detail as a distinct case study approach. Differentiating the three approaches to case study research allows the authors to present each as a coherent and consistent way of drawing causal inferences by studying one or a few cases in-depth. The authors highlight the core features of each approach and provide helpful advice for each step of the research process, including: formulating research questions and goals, selecting theories and cases, data generation, data analysis and generalization. They also show how case studies can fruitfully be combined with statistical analysis and Qualitative Comparative Analysis and illustrate the three approaches by many detailed examples of best research practice from International Relations, European Studies, Comparative Politics, Public Administration, Organizational Studies and related disciplines.

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.

The mathematization of causality is a relatively recent development, and has become increasingly important in data science and machine learning. This book offers a self-contained and concise introduction to causal models and how to learn them from data. After explaining the need for causal models and discussing some of the principles underlying causal inference, the book teaches readers how to use causal models: how to compute intervention distributions, how to infer causal models from observational and interventional data, and how causal ideas could be exploited for classical machine learning problems. All of these topics are discussed first in terms of two variables and then in the more general multivariate case. The bivariate case turns out to be a particularly hard problem for causal learning because there are no conditional independences as used by classical methods for solving multivariate cases. The authors consider analyzing statistical asymmetries between cause and effect to be highly instructive, and they report on their decade of intensive research into this problem. The book is accessible to readers with a background in machine learning or statistics, and can be used in graduate courses or as a reference for researchers. The text includes code snippets that can be copied and pasted, exercises, and an appendix with a summary of the most important technical concepts.

The application of causal inference methods is growing exponentially in fields that deal with observational data. Written by pioneers in the field, this practical book presents an authoritative yet accessible overview of the methods and applications of causal inference. With a wide range of detailed, worked examples using real epidemiologic data as well as software for replicating the analyses, the text provides a thorough introduction to the basics of the theory for non-time-varying treatments and the generalization to complex longitudinal data.