

Book



Review

REVIEWS THROUGH A PUBLIC HEALTH LENS

A Solution to the Ecological Inference Problem: Reconstructing Individual Behavior from Aggregate Data

Gary King
Princeton (NJ): Princeton University Press, 1997
342 pages
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Ecological Inference in Public Health

MICHAEL A. STOTO, PhD

A public health official finds a high correlation across health districts between the infant mortality rate and the proportion of the population that is black. Does this mean that an individual black child has less chance of surviving his or her first year? Or suppose there is a negative correlation between hospitalizations for asthma and the proportion of children covered by health insurance. Does this prove that health insurance can help prevent the progression of asthma?

Although questions of this sort have been central to public health from its beginnings, scientists have long been wary of such "ecological inferences." Gary King's new book points out that political scientists and others have faced the same problems

for many years, and he develops a new set of statistical techniques for drawing proper inferences from aggregate data.

Professor King's central idea can be understood through the following example (using his numbers in a public health context). Suppose you know that the infant mortality rate is 19 per 1000 in District A and that 88% of the population is black. With only these two numbers, can anything be said about the infant mortality rate in black children in District A? In other children in the District? King points out that the aggregate rates set limits on the component rates. In this example, the math dictates that the black rate be between 7 per 1000 and 21 per 1000. If, for instance, the black rate were greater than 21, the rate in non-black children would have to be less than zero to get an overall rate of 19.

The overall infant mortality rate (A) is the weighted average of the rate among blacks (B) and non-blacks (C), with the weights being X (the proportion black) and $1-X$. If A is 19/1000 or 0.019, and X is 0.88, then the equation that must be satisfied is $0.019 = 0.88(B) + 0.12(C)$. If C is 0.0, the lowest it could theoretically be, B would have to be $0.019/0.88 = 0.21$. If you did the same thing for $C = 1.0$, you get $A = 0.007$.

Although this doesn't seem to tell us much about District A, when it is combined with similar information about other districts, much

stronger, statistically valid inferences are possible. In *A Solution to the Aggregate Inference Problem*, King develops detailed statistical methods that can be used to refine the inferences that can be drawn from aggregate data. The book carefully lays out the statistical problems, reviews a variety of approaches that have been developed in the past to deal with them, and describes King's own approach to these problems. This approach is innovative and technically appropriate.

King's model requires specialized statistical software, and he has generously made it available to all (along with sample datasets) on his World Wide Web site at gking.harvard.edu. As with any statistical technique, assumptions are necessary, but King's seem minimal. His software includes diagnostic plots that allow the user to review the model's assumptions and fit.

The many examples in King's book, such as voter turnout rates by racial categories, reflect his own background in political science. The independent variables are not too far from those seen in public health, however, so the examples shouldn't be difficult for readers with a public health background. Although it contains deep statistical concepts, the book is written in a mostly non-mathematical way. One result is that a substantial proportion of the text is devoted to explicating the mathematical and statistical concepts motivating and underlying King's methods (and showing us how groundbreaking

Solution To The Ecological Inference Problem aggregate Data

Gary King, Martin A. Tanner, Ori Rosen

Solution To The Ecological Inference Problem

Solution to the Ecological Inference Problem, 1997 Cf <http://dx.doi.org/10.3886/ICPSR01132.v1> **A Solution to the Ecological Inference Problem** Gary King, 2013-09-20 This book provides a solution to the ecological inference problem which has plagued users of statistical methods for over seventy five years How can researchers reliably infer individual level behavior from aggregate ecological data In political science this question arises when individual level surveys are unavailable for instance local or comparative electoral politics unreliable racial politics insufficient political geography or infeasible political history This ecological inference problem also confronts researchers in numerous areas of major significance in public policy and other academic disciplines ranging from epidemiology and marketing to sociology and quantitative history Although many have attempted to make such cross level inferences scholars agree that all existing methods yield very inaccurate conclusions about the world In this volume Gary King lays out a unique and reliable solution to this venerable problem King begins with a qualitative overview readable even by those without a statistical background He then unifies the apparently diverse findings in the methodological literature so that only one aggregation problem remains to be solved He then presents his solution as well as empirical evaluations of the solution that include over 16 000 comparisons of his estimates from real aggregate data to the known individual level answer The method works in practice King's solution to the ecological inference problem will enable empirical researchers to investigate substantive questions that have heretofore proved unanswerable and move forward fields of inquiry in which progress has been stifled by this problem **Ecological**

Inference Gary King, Martin A. Tanner, Ori Rosen, 2004-09-13 Drawing upon the recent explosion of research in the field a diverse group of scholars surveys the latest strategies for solving ecological inference problems the process of trying to infer individual behavior from aggregate data The uncertainties and information lost in aggregation make ecological inference one of the most difficult areas of statistical inference but these inferences are required in many academic fields as well as by legislatures and the Courts in redistricting marketing research by business and policy analysis by governments This wide ranging collection of essays offers many fresh and important contributions to the study of ecological inference

International Encyclopedia of Human Geography, 2019-11-29 International Encyclopedia of Human Geography Second Edition Fourteen Volume Set embraces diversity by design and captures the ways in which humans share places and view differences based on gender race nationality location and other factors in other words the things that make people and places different Questions of for example politics economics race relations and migration are introduced and discussed through a geographical lens This updated edition will assist readers in their research by providing factual information historical perspectives theoretical approaches reviews of literature and provocative topical discussions that will stimulate creative thinking Presents the most up to date and comprehensive coverage on the topic of human geography Contains extensive scope and depth of coverage Emphasizes how geographers interact with understand and contribute to problem

solving in the contemporary world Places an emphasis on how geography is relevant in a social and interdisciplinary context

Analysis of Integrated Data Li-Chun Zhang,Raymond L. Chambers,2019-04-18 The advent of Big Data has brought with it a rapid diversification of data sources requiring analysis that accounts for the fact that these data have often been generated and recorded for different reasons Data integration involves combining data residing in different sources to enable statistical inference or to generate new statistical data for purposes that cannot be served by each source on its own This can yield significant gains for scientific as well as commercial investigations However valid analysis of such data should allow for the additional uncertainty due to entity ambiguity whenever it is not possible to state with certainty that the integrated source is the target population of interest Analysis of Integrated Data aims to provide a solid theoretical basis for this statistical analysis in three generic settings of entity ambiguity statistical analysis of linked datasets that may contain linkage errors datasets created by a data fusion process where joint statistical information is simulated using the information in marginal data from non overlapping sources and estimation of target population size when target units are either partially or erroneously covered in each source Covers a range of topics under an overarching perspective of data integration Focuses on statistical uncertainty and inference issues arising from entity ambiguity Features state of the art methods for analysis of integrated data Identifies the important themes that will define future research and teaching in the statistical analysis of integrated data Analysis of Integrated Data is aimed primarily at researchers and methodologists interested in statistical methods for data from multiple sources with a focus on data analysts in the social sciences and in the public and private sectors

Voting and Political Representation in America Mark P. Jones,2020-02-24 Examines voting trends and political representation in the United States today with a special focus on debates over voting rights voter fraud and voter suppression and election rules and regulations including those related to gerrymandering campaign fundraising and other controversial subjects Do average Americans have a voice in Washington Are they well represented or are they marginalized Do elections reflect fundamental democratic institutions and values or are they tarnished by voter suppression voter fraud gerrymandering or other factors To what extent do America s elected officials reflect the diversity of race religion gender socioeconomic background sexual orientation and political views of the wider American population This encyclopedia explores all these questions and more It examines important mechanisms and laws shaping political representation in America in the 21st century such as term limits gerrymandering the Electoral College and direct democracy ballot initiatives and referendums and the degree to which various demographic groups are represented in state and federal legislatures from Latinos and senior citizens to atheists and residents of rural states It also explains the basis for escalating concerns about both voter fraud and voter suppression

Analysis and Modeling of Complex Data in Behavioral and Social Sciences Donatella Vicari,Akinori Okada,Giancarlo Ragozini,Claus Weihs,2014-07-05 This volume presents theoretical developments applications and computational methods for the analysis and modeling in behavioral and social sciences where data are

usually complex to explore and investigate The challenging proposals provide a connection between statistical methodology and the social domain with particular attention to computational issues in order to effectively address complicated data analysis problems The papers in this volume stem from contributions initially presented at the joint international meeting JCS CLADAG held in Anacapri Italy where the Japanese Classification Society and the Classification and Data Analysis Group of the Italian Statistical Society had a stimulating scientific discussion and exchange

Governance by Decree Ruth P. Morgan, 2004 The Voting Rights Act of 1965 which originally was intended to prohibit barriers to black registration and voting has been hailed as a triumph for civil rights and as a catalyst for the election of minorities to public office in both the Deep South and the urban North To advance its objective federal courts instructed many cities to change from at large to single member district electoral systems as a way to ensure that minorities had a reasonable chance to elect representatives of their choice In the first book to critique the implementation of this landmark legislation in a major American city Ruth Morgan examines its effect on local governance over forty years in Dallas and shows that it had unintended consequences for racial politics representation and public policy Breaking from studies that measure the success of the VRA in terms of increased minority representation Morgan assesses the consequences of the Act for Dallas city government and for the wider interests of minorities as well While endorsing the original intent of the VRA Morgan believes that this intent was subverted by subsequent amendments to the Act and by the courts attempts to advance the political standing of particular minority groups She argues that court imposed single member districts have created in Dallas a city council infected with parochialism and careerism a result of members no longer having to compromise to win citywide votes and have had an adverse impact on governmental effectiveness and voter turnout With corruption and cronyism now rampant voting rights legislation and litigation have ultimately failed to fulfill the hopes and aspirations of the unempowered and the district system has created an incentive for continued racial separation Governance by Decree offers a pointed assessment of the complexities and contradictions produced by the voting rights law while at the same time calling for the federal judiciary to exercise restraint in imposing its will when it lacks the capacity to make choices that are inherently political Morgan s powerfully argued case study should inspire much debate and inform forthcoming congressional deliberations over the renewal of the preclearance section of the VRA in 2007

Counting Women's Ballots J. Kevin Corder, Christina Wolbrecht, 2016-05-26 Counting Women s Ballots provides a comprehensive account of how women voted in presidential elections immediately after suffrage

Key Topics in Landscape Ecology Jianguo Wu, Richard J. Hobbs, 2007-03-29 Landscape ecology is a relatively new area of study which aims to understand the pattern of interaction of biological and cultural communities within a landscape This book brings together leading figures from the field to provide an up to date survey of recent advances identify key research problems and suggest a future direction for development and expansion of knowledge Providing in depth reviews of the principles and methods for understanding landscape patterns and changes the

book illustrates concepts with examples of innovative applications from different parts of the world Forming a current state of the science for the science of landscape ecology this book forms an essential reference for graduate students academics professionals and practitioners in ecology environmental science natural resource management and landscape planning and design

The Enigmatic Realm of **Solution To The Ecological Inference Problemaggregate Data**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Solution To The Ecological Inference Problemaggregate Data** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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