

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
\$55.00 hardcover; \$16.95 paperback

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

Jianguo Wu, Richard J. Hobbs



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 **Applied Spatial Statistics for Public Health Data** Lance A. Waller, Carol A. Gotway, 2004-07-29 While mapped data provide a common ground for discussions between the public the media regulatory agencies and public health researchers the analysis of spatially referenced data has experienced a phenomenal growth over the last two decades thanks in part to the development of geographical information systems GISs This is the first thorough overview to integrate spatial statistics with data management and the display capabilities of GIS It describes methods for assessing the likelihood of observed patterns and quantifying the link between exposures and outcomes in spatially correlated data This introductory text is designed to serve as both an introduction for the novice and a reference for practitioners in the field Requires only minimal background in public health and only some knowledge of statistics through multiple regression Touches upon some advanced topics such as

random effects hierarchical models and spatial point processes but does not require prior exposure Includes lavish use of figures illustrations throughout the volume as well as analyses of several data sets in the form of data breaks Exercises based on data analyses reinforce concepts

Counting Women's Ballots J. Kevin Corder, Christina Wolbrecht, 2016-05-25 How did the first female voters cast their ballots For almost 100 years answers to this question have eluded scholars Counting Women's Ballots employs new data and novel methods to provide insights into whether how and with what consequences women voted in the elections after suffrage The analysis covers a larger and more diverse set of places over a longer period of time than has previously been possible J Kevin Corder and Christina Wolbrecht find that the extent to which women voted and which parties they supported varied considerably across time and place challenging attempts to describe female voters in terms of simple generalizations Many women adapted quickly to their new right others did not In some cases women reinforced existing partisan advantages in others they contributed to dramatic political realignment Counting Women's Ballots improves our understanding of the largest expansion of the American electorate during a transformative period of American history

The Proof Frederick Schauer, 2022-05-31 In a world awash in fake news where public figures make unfounded assertions as a matter of course a preeminent legal theorist ranges across the courtroom the scientific laboratory and the insights of philosophers to explore the nature of evidence and show how it is credibly established In the age of fake news trust and truth are hard to come by Blatantly and shamelessly public figures deceive us by abusing what sounds like evidence Preeminent legal theorist Frederick Schauer proposes correctives drawing on centuries of inquiry into the nature of evidence Evidence is the basis of how we know what we think we know but evidence is no simple thing Evidence that counts in say the policymaking context is different from evidence that stands up in court Law science historical scholarship public and private decisionmaking all rely on different standards of evidence Exploring diverse terrain including vaccine and food safety election fraud claims the January 2021 events at the US Capitol the reliability of experts and eyewitnesses climate science art authentication and even astrology The Proof develops fresh insights into the challenge of reaching the truth Schauer combines perspectives from law statistics psychology and the philosophy of science to evaluate how evidence should function in and out of court He argues that evidence comes in degrees Weak evidence is still some evidence The absence of evidence is not evidence of absence but prolonged fruitless efforts to substantiate a claim can go some distance in proving a negative And evidence insufficient to lock someone up for a crime may be good enough to keep them out of jail This book explains how to reason more effectively in everyday life shows why people often reason poorly and takes evidence as a pervasive problem not just a matter of legal rules

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

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

Numerical Issues in Statistical Computing for the Social Scientist Micah Altman, Jeff Gill, Michael P.

McDonald, 2004-02-15 At last a social scientist's guide through the pitfalls of modern statistical computing Addressing the current deficiency in the literature on statistical methods as they apply to the social and behavioral sciences Numerical Issues in Statistical Computing for the Social Scientist seeks to provide readers with a unique practical guidebook to the numerical methods underlying computerized statistical calculations specific to these fields The authors demonstrate that knowledge of these numerical methods and how they are used in statistical packages is essential for making accurate inferences With the aid of key contributors from both the social and behavioral sciences the authors have assembled a rich set of interrelated chapters designed to guide empirical social scientists through the potential minefield of modern statistical computing Uniquely accessible and abounding in modern day tools tricks and advice the text successfully bridges the gap between the current level of social science methodology and the more sophisticated technical coverage usually associated with the statistical field Highlights include A focus on problems occurring in maximum likelihood estimation Integrated examples of statistical computing using software packages such as the SAS Gauss Splus R Stata LIMDEP SPSS WinBUGS and MATLAB A guide to choosing accurate statistical packages Discussions of a multitude of computationally intensive statistical approaches such as ecological inference Markov chain Monte Carlo and spatial regression analysis Emphasis on specific numerical problems statistical procedures and their applications in the field Replications and re analysis of published social science research using innovative numerical methods Key numerical estimation issues along with the means of avoiding common pitfalls A related Web site includes test data for use in demonstrating numerical problems code for applying the original methods described in the book and an online bibliography of Web resources for the statistical computation Designed as an independent research tool a professional reference or a classroom supplement the book presents a well thought out treatment of a complex and multifaceted field

Polling America Richard L. Clark, Kelly N. Foster, Samuel J. Best, Benjamin Radcliff, 2020-08-04 This work provides an authoritative overview of the composition of public opinion in America the methodologies by which public opinion is measured and the importance of polling to U S politics policy and culture This revised edition is a comprehensive resource for understanding all aspects of public opinion polling in the United States including major and emerging theories and concepts historical and current methodologies political journalistic and corporate

uses landmark events and developments in the history of polling and influential people and organizations The encyclopedia also illuminates how public opinion polling has become important in shaping the trajectory of American society and the views that Americans have about themselves and their fellow citizens Specific big picture topics explored include how data mining of internet and social media usage trends has shaped modern political and business advertising campaigns the impact of politically partisan media outlets on public opinion and attitudes of various sectors of the American electorate about diverse topics including gun control abortion immigration marijuana legalization and the nation's two main political parties

A Companion to Political Geography John A. Agnew, Katharyne Mitchell, Gerard Toal, 2008-04-15 *A Companion to Political Geography* presents students and researchers with a substantial survey of this active and vibrant field Introduces the best thinking in contemporary political geography Contributions written by scholars whose work has helped to shape the discipline Includes work at the cutting edge of the field Covers the latest theoretical developments

Rethinking the 'Coloured Revolutions' David Lane, Stephen White, 2013-09-13 The communist world was supposed to have had its revolution in 1989 But the demise of the Soviet Union came two years later at the end of 1991 and then perplexingly a series of irregular executive changes began to take place the following decade in countries that were already postcommunist The focus in this collection is the changes that took place in Serbia Georgia Ukraine and Kyrgyzstan between 2000 and 2005 that have together been called the coloured revolutions of no particular colour in Serbia but Rose in Georgia Orange in Ukraine and Tulip in Kyrgyzstan Apart from exploring political change in the coloured revolution countries themselves the contributors to this collection focus on countries that did not experience this kind of irregular executive change but which might otherwise be comparable Belarus and Kazakhstan among them and on reactions to democracy promotion in Russia and China Throughout an effort is made to avoid taking the coloured revolutions at face value however they may have been presented by local leaders and foreign governments with their own agendas and to place them within the wider literature of comparative politics This book was previously published as a special issue of *Journal of Communist Studies and Transition Politics*

Pattern Recognition and Artificial Intelligence Mounîm El Yacoubi, Eric Granger, Pong Chi Yuen, Umapada Pal, Nicole Vincent, 2022-05-28 This two volume set constitutes the proceedings of the Third International Conference on Pattern Recognition and Artificial Intelligence ICPRAI 2022 which took place in Paris France in June 2022 The 98 full papers presented were carefully reviewed and selected from 192 submissions The papers present new advances in the field of pattern recognition and artificial intelligence They are organized in topical sections as follows pattern recognition computer vision artificial intelligence big data

Latinos and the 2016 Election Gabriel R. Sanchez, Luis Ricardo Fraga, Ricardo Ramírez, 2020-05-01 The 2016 election saw more Latino votes than the record voter turnout of the 2012 election The essays in this volume provide a highly detailed analysis of the state and national impact Latino voters had in what will be remembered as one of the biggest surprises in presidential election history Contrary to much commentary Latino voters

increased their participation rates in all states beyond the supposed peak levels that they attained in 2012 Moreover they again displayed their overwhelming support of Democratic candidates and even improved their Democratic support in Florida Nonetheless their continued presence and participation in national elections was not sufficient to prevent the election of Donald Trump the Republican presidential candidate who vilified Latinos and especially Latino immigrants Each essay provides insights as to how these two competing realities coexist while the conclusion addresses the implications of this coexistence for the future of Latinos in American politics

Our Patchwork Nation Dante Chinni, James Gimpel Ph.D., 2011-10-04 A revolutionary new way to understand America's complex cultural and political landscape with proof that local communities have a major impact on the nation's behavior in the voting booth and beyond In a climate of culture wars and tremendous economic uncertainty the media have often reduced America to a simplistic schism between red states and blue states In response to that oversimplification journalist Dante Chinni teamed up with political geographer James Gimpel to launch the Patchwork Nation project using on the ground reporting and statistical analysis to get past generalizations and probe American communities in depth The result is Our Patchwork Nation a refreshing sometimes startling look at how America's diversities often defy conventional wisdom Looking at the data they recognized that the country breaks into twelve distinct types of communities and old categories like soccer mom and working class don't matter as much as we think Instead by examining Boom Towns Evangelical Epicenters Military Bastions Service Worker Centers Campus and Careers Immigration Nation Minority Central Tractor Community Mormon Outposts Emptying Nests Industrial Metropolises and Monied Burbs the authors demonstrate the subtle distinctions in how Americans vote invest shop and otherwise behave reflect what they experience on their local streets and in their daily lives Our Patchwork Nation is a brilliant new way to debate and examine the issues that matter most to our communities and to our nation

Geographical Data Imperfection 2 Francois Pinet, Mireille Batton-Hubert, Eric Desjardin, 2024-02-21 Geographical data often contains imperfections associated with insufficient precision errors or incompleteness If these imperfections are not identified taken into account and controlled when using the data the potential for errors may arise leading to significant consequences with unforeseeable effects particularly in a decisionmaking context It is then necessary to characterize and model this imperfection and take it into account throughout the process In the previous volume we introduced different approaches for defining representing and processing imperfections in geographic data Volume 2 will now present a number of concrete applications in a variety of fields demonstrating the practical application of the methodology to use cases such as agriculture natural disaster management mountain hazards land management and assistance for the visually impaired

Solution To The Ecological Inference Problemaggregate Data Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Solution To The Ecological Inference Problemaggregate Data**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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