

A Solution to the Ecological Inference Problem

GARY KING

Reconstructing
Individual
Behavior from
Aggregate Data

A Solution To The Ecological Inference Problem

Ian Pickup



A 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

The Oxford Handbook of Political Methodology Janet M. Box-Steffensmeier, Henry E. Brady, David Collier, 2008 Political methodology has changed dramatically over the past thirty years and many new methods and techniques have been developed Both the Political Methodology Society and the Qualitative Multi Methods Section of the American Political Science Association have engaged in ongoing research and training programs that have advanced quantitative and qualitative methodology The Oxford Handbook of Political Methodology presents and synthesizes these developments The Handbook provides comprehensive overviews of diverse methodological approaches with an emphasis on three major themes First specific methodological tools should be at the service of improved conceptualization comprehension of meaning measurement and data collection They should increase analysts leverage in reasoning about causal relationships and evaluating them empirically by contributing to powerful research designs Second the authors explore the many different ways of addressing these tasks through case studies and large n designs with both quantitative and qualitative data and via techniques ranging from statistical modelling to process tracing Finally techniques can cut across traditional methodological boundaries and can be useful for many different kinds of researchers Many of the authors thus explore how their methods can inform and be used by scholars engaged in diverse branches of methodology

A Statistical Guide for the Ethically Perplexed Lawrence Hubert, Howard Wainer, 2012-09-25 For disciplines concerned with human well being such as medicine psychology and law

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treatment of a complex and multifaceted field **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*, 2009-07-16 The International Encyclopedia of Human Geography provides an authoritative and comprehensive source of information on the discipline of human geography and its constituent and related subject areas The encyclopedia includes over 1 000 detailed entries on philosophy and theory key concepts methods and practices biographies of notable geographers and geographical thought and praxis in different parts of the world This groundbreaking project covers every field of human geography and the discipline s relationships to other disciplines and is global in scope involving an international set of contributors Given its broad inclusive scope and unique online accessibility it is anticipated that the International Encyclopedia of Human Geography will become the major reference work for the discipline over the coming decades The Encyclopedia will be available in both limited edition print and online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit http://info.sciencedirect.com/content/books/ref_works coming Available online on ScienceDirect and in limited edition print format Broad interdisciplinary coverage across human geography Philosophy Methods People Social Cultural Political Economic Development Health Cartography Urban Historical Regional Comprehensive and unique the first of its kind in human geography *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 Defining the Spatial Scale in Modern Regional Analysis Esteban Fernández Vázquez, Fernando Rubiera Morollón, 2013-01-11 This book explores different approaches to defining the concept of region depending on the specific question that needs to be answered While the typical administrative spatial data division fits certain research questions well in many cases defining regions in a different way is fundamental in order to obtain significant empirical evidence The book is divided into three parts The first part is dedicated to a methodological discussion of the concept of region and the different potential approaches from different perspectives The problem of having sufficient information to define different regional units is always present This justifies the second part of the book which focuses on the techniques of ecological inference applied to estimating disaggregated data from observable aggregates Finally the book closes by presenting several applications that are in line with the functional areas definition in regional analysis

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