

CROSS-LEVEL INFERENCE IN POLITICAL SCIENCE

DETLEF F. SPRINZ

Potsdam Institute for Climate Impact Research, Department of Global Change & Social Systems and University of Potsdam, Department of Political Science, P.O. Box 60 12 03, 14412 Potsdam, Germany

Abstract. Political Science research encounters inferences across levels of analysis; however, they are fraught with challenges. After introducing voting examples of aggregation bias, problems posed by aggregation bias are summarized more generally. Subsequently, the article reviews the major methodological approaches to overcome aggregation bias and to solve the ecological inference (disaggregation) problem. The article highlights the possibility that aggregation bias may lead governments to accept (or reject) international climate agreements when negotiating as blocs of countries as compared to the distribution of the preferences of all countries involved in the negotiations.

Keywords: cross-level inference, political science, aggregation bias, ecological fallacy.

[T]here may or not may be a unanimously preferred outcome. And even if one of the outcomes is unanimously chosen, we cannot infer that it is preferred from the fact that it is universally chosen.

(Schelling 1978, 98-99)

1. The Problem of Cross-Level Inference

Schelling's observation points to the problem of incongruity between individual preferences and collective outcomes and the challenge to make inferences from one level of analysis about another level. Fortunately, social scientists have a long tradition in modeling across various levels of analysis or levels of aggregation. While economists often distinguish microeconomics (e.g., the study of individual firms, individual consumers, etc.) and macroeconomics (e.g., whole economies as part of the world economy), sociologists distinguish, *inter alia*, individuals, groups, and states. Similarly, political scientists, especially specialists in international relations, focus on at least three levels of analysis such as the individual decision-maker, country aggregates (e.g., country positions in international environmental negotiations), and the international system of countries (e.g., the occurrence of international war on the global level) (see Singer 1969; Waltz 1959; Waltz 1979). However, the problems encountered by making inferences across various levels of analysis do not necessarily receive



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Cross Level Inference:

Cross-Level Inference Christopher H. Achen, W. Phillips Shively, 1995-05-20 In the last several years new disputes have erupted over the use of group averages from census areas or voting districts to draw inferences about individual social behavior Social scientists policy analysts and historians often have little choice about using this kind of data but statistical analysis of them is fraught with pitfalls The recent debates have led to a new menu of choices for the applied researcher This volume explains why older methods like ecological regression so often fail and it gives the most comprehensive treatment available of the promising new techniques for cross level inference Experts in statistical analysis of aggregate data Christopher H Achen and W Philips Shively contend that cross level inference makes unusually strong demands on substantive knowledge so that no one method such as Goodman s ecological regression will fit all situations Criticizing Goodman s model and some recent attempts to replace it the authors argue for a range of alternate techniques including extensions of cross tabular regression analysis and unobservable variable estimators *Encyclopedia of Epidemiologic Methods* Mitchell H. Gail, Jacques Benichou, 2000-11-02 Featuring articles from the prestigious Encyclopedia of Biostatistics many of which have been revised and updated to include recent developments the Encyclopedia of Epidemiologic Methods also includes newly commissioned articles reflecting the latest thinking in Cancer Registries Birth Defect Registries Meta Analysis of Epidemiologic Studies Epidemiology Overview Sample Size Sex Ratio at Birth Software Design and Analysis Featuring contributions from leading experts in academia government and industry the Encyclopedia of Epidemiologic Methods has been designed to complement existing texts on the subject by providing further extensive up to date coverage of specialised topics and by introducing the reader to the research literature Offering a wealth of information in a single resource the Encyclopedia of Epidemiologic Methods Offers an excellent introduction to a vast array of specialised topics Includes in depth coverage of the statistical underpinnings of contemporary epidemiologic methods Provides concise definitions and introductions to numerous concepts found in the current literature Uses extensive cross references helping to facilitate further research and enabling the reader to locate definitions and related concepts In addition to featuring extensive articles in the areas of descriptive and analytic epidemiology the Encyclopedia also provides the reader with articles on case control design and offers substantial coverage of allied statistical methods *The Multilevel Design* Harry Jm Huttner, Pieter van den Eeden, 1995-01-30 In the social sciences phenomena tend to be hierarchically structured so that individuals belong to groups and groups belong to larger organizations and societies Multilevel research stresses this hierarchical structure of social life and necessarily assumes the existence of a particular organization of the procedures of investigation This organization which is fundamental to the research is called a research design Because the research is hierarchical it uses a multilevel design This book provides a detailed overview of the theoretical and methodological aspects of multilevel research based on the multilevel definition of social structure Six chapters discuss the foundations of multilevel

research and the applications of its research in the social sciences An annotated bibliography follows which is divided into eight sections on theoretical and methodological issues and on applications of multilevel research Included are books and articles published from 1980 through 1993

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