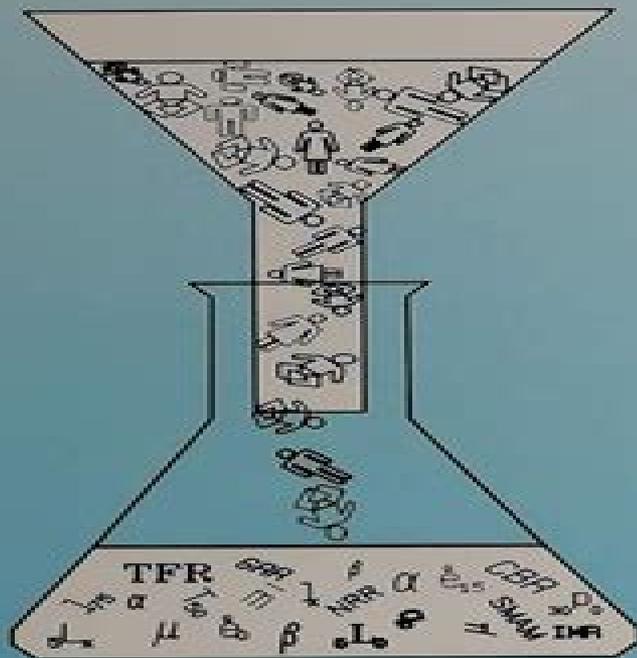

METHODS AND MODELS IN DEMOGRAPHY



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Methods And Models In Demography

Wenbin Ji



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methods used to study population structure and change and which examines the interpretative models applied to the results The Methods and Materials of Demography Henry S. Shryock, Jacob S. Siegel, Elizabeth A. Larmon,1971 Textbook on the research methods incl Data collecting and data processing used in dealing with demographic statistical data outlines methodology used in determining population size distribution and composition incl In respect of age group sex marital status education etc and describes measures used in calculating population growth and decrease mortality birth rate fertility marriage and divorce migration population projections etc Bibliographys at the end of chapters graphs references and statistical tables *Demography - Volume II* Zeng Yi,2010-11-30 Zeng Yi is a Professor at the Center for the Study of Aging and Human Development and Geriatric Division Dept of Medicine of Medical School and Institute of Population Research and Dept of Sociology Duke University He is also a Professor at the China Center for Economic Research National School of Development at Peking University in China and Distinguished Research Scholar of the Max Planck Institute for Demographic Research MPIDR in Germany He received his doctoral degree from Brussels Free University in May 1986 and conducted post doctoral study at Princeton University in 1986 87 Up to Feb 2008 he has had 81 professional articles written in English published in academic journals or as book chapters in the United States and Europe among them 51 articles were published in anonymous peer reviewed academic journals He has had 85 professional articles written in Chinese and published in China among them 55 articles were published in national top Chinese academic journals He has published sixteen books including five research books as first author such as *Family Dynamics in China* published by the University of Wisconsin Press one textbook on demographic methods as the sole author two volumes of demographic software and user s manuals as the first

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The Methods and Material of Demography Henry S. Shryock, Jacob S. Siegel ,1973 **Demographic Methods Across the Tree of Life** Roberto Salguero-Gomez, Marlène Gamelon, 2021 This novel book provides the reader with the fundamentals of data collection model construction analyses and interpretation across a wide repertoire of demographic techniques and protocols clearly guided throughout with fully reproducible R scripts 5th Population and Housing Census, 2008: Gadarif State ,2011 **Demographic Projection Techniques for Regions and Smaller Areas** H. Craig Davis, 1995 In Chapter 3 the author outlines a four step projection procedure which is used throughout the remainder of the book Chapter 4 describes how to project population size by comparing the growth pattern of the population under study with that of another population The next chapter covers one of the most commonly employed techniques of population projection the cohort survival model which is used not only to project the size of a population but also its composition in terms of age and sex groupings The final chapter focuses on migration generally the most volatile component of the basic demographic equation Primarily written for courses in planning this book is also useful for anyone having to make decisions affected by population trends whether they involve planning for future growth or alerting local decisionmakers to external uncertainties that could have a serious impact on the future of their community **Section IX: Demography** ,1913 **The Methods and Materials of Demography** Henry S. Shryock, Jacob S. Siegel, 1980 **Transactions of the Fifteenth International Congress on Hygiene and Demography, Washington, September 23-28, 1912** ,1913 **Transactions of the Fifteenth International Congress on Hygiene and Demography** ,1913 **Transactions of the fifteenth International congress on hygiene and demography v. 6** ,1913 **Demography** Samuel Preston, Patrick

Heuveline, Michel Guillot, 2000-10-03 This book presents and develops the basic methods and models that are used by demographers to study the behaviour of human populations The procedures are clearly and concisely developed from first principles and extensive applications are presented *Readings in Population Research Methodology: Basic tools* United Nations Population Fund, 1993 **Quantitative Methods and Data Analysis in Applied Demography - Volume 2**

Christos H. Skiadas, Charilaos Skiadas, 2025-08-31 This second volume of two complements volume 1 by discussing models risk and surveys in applied demography Models and modeling cover a wide range of data analysis methods and techniques to cope with demographic data including principal components clustering GARCH models and dynamic correlation multilevel models and stochastic insurance models including an R package for clustering as well Surveys cope with the analysis of various data set arising in National and International context Data from European Social Survey and National surveys are analyzed as well as food waste generation analysis and social mobility in Europe along with post Covid 19 data sets By providing a methodology to cope with health and mortality problems in demography and society in Volume 1 and quantifying important health parameters in Volume 2 the books are a valuable guide for applied demographers researchers theoreticians and practitioners from various disciplines and especially health scientists statisticians economists and sociologists

Modeling Multigroup Populations Robert Schoen, 1987-10-31 This book deals with models that can capture the behavior of individuals and groups over time Organizationally it is divided into three parts Part I discusses the basic decrement only life table and its associated stable population Part II examines multistate or increment decrement models and provides the first comprehensive treatment of those extremely flexible and useful life table models Part III looks at two sex models which simultaneously incorporate the marriage or fertility behavior of males and females Those models are explored more fully and completely here than has been the case to date and the importance of including the experience of both sexes is demonstrated analytically as well as empirically In sum this book considers a broad range of population models with a view to showing that such models can be eminently calculable clearly interpretable and analytically valuable for the study of many kinds of social behavior Four appendixes have been added to make the book more usable Appendix A provides a brief introduction to calculus and matrix algebra so that readers can understand though not necessarily derive the equations presented Appendix B provides an index of the principal symbols used Appendix C gives the answers to the exercises found at the end of each chapter Those exercises should be seen as an extension of the text and are intended to inform as well as to challenge **Model-Based Demography** Thomas K. Burch, 2017-10-14 Late in a career of more than sixty years Thomas Burch an internationally known social demographer undertook a wide ranging methodological critique of demography This open access volume contains a selection of resulting papers some previously unpublished some published but not readily accessible from past meetings of The International Union for the Scientific Study of Population and its research committees or from other small conferences and seminars Rejecting the idea that demography is simply a branch of applied statistics his

work views it as an autonomous and complete scientific discipline When viewed from the perspective of modern philosophy of science specifically the semantic or model based school demography is a balanced discipline with a rich body of techniques and data but also with more and better theories than generally recognized As demonstrated in this book some demographic techniques can also be seen as theoretical models and some substantive behavioral models commonly rejected as theory because of inconsistent observations are now seen as valuable theoretical models for example demographic transition theory This book shows how demography can build a strong theoretical edifice on its broad and deep empirical foundation by adoption of the model based approach to science But the full fruits of this approach will require demographers to make greater use of computer modeling both macro and micro simulation in the statement and manipulation of theoretical ideas as well as for numerical computation This book is open access under a CC BY license

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