Introduction to Using Multilevel Models for Contextual Cross-Sectional Research

DukeNUS Medical School

Centre for **A**geing **R**esearch & **E**ducation

Centre for Ageing Research and Education (CARE)
Duke-NUS Medical School Singapore

6th August 2018
9 am – 5.30 pm*
Training Room 3D, Level 3, Duke-NUS Medical School

Workshop Fee: $267.50 nett**

*Tea break will be provided
**Inclusive of 7% GST

SYNOPSIS

Many research problems in the social sciences pertain to data that span multiple levels of observations. An example would be an interest in the determinants of an outcome that is influenced by individual or personal characteristics and is also a function of aggregate forces common to groups of individuals such as the characteristics of a neighbourhood, region or country. If the data is organised such that it allows individuals to be nested within aggregated units, it is possible to analyse the determinants using a multilevel approach.

Multilevel models, also known as hierarchical, mixed effects or random-effects models, have become more commonplace as such data has become more available and standard social science statistical packages more developed. Today, a basic understanding of these types of models is often required for comprehending various analytical procedures.

This workshop will provide introductory instructions on running multilevel models in Stata and interpreting their results. The workshop is ideal for those with experience in standard multivariate techniques like OLS regression but without experience in multilevel analysis. The workshop will review examples of these models and if time permits, provide participants with a chance for hands-on analysis.

ABOUT THE TRAINER

Zachary Zimmer is a Professor in the Department of Family Studies and Gerontology and Canada Research Chair in Global Aging and Community at Mount Saint Vincent University, Canada. He has held academic and research positions at the University of Nevada Las Vegas, the Population Council in New York, the University of Utah and the University of California San Francisco since 1998. Dr Zimmer uses quantitative data to focus on global issues studied from a demographic perspective that are related to population ageing. He has worked in many countries, including in East and Southeast Asia, sub-Saharan Africa, Eastern Europe and the United States of America. Dr Zimmer's work has been published in international journals across a number of disciplines and he has led seminars at universities, government agencies and research organisations around the world.

LEARNING OUTCOMES

By the end of the workshop, attendees will have:

• A basic understanding of multilevel models
• An introduction on running multilevel models in Stata and how to interpret results
• Some exposure to multilevel analysis

PRE-REQUISITES

• Familiarity with Stata is preferred and familiarity with other statistical packages is also useful
• Participants should have some experience in standard multivariate techniques (eg. OLS regression)
• It is recommended that participants bring their own computer with a pre-installed version of Stata
• Sharing arrangements will be facilitated for those without Stata on their own computers

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