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The 6th KOSTAT-UNFPA Summer Seminar on Population

Workshop 1

Application of R to Demographic Analysis
July 22 – July 26, 2019
Statistical Training Institute, Daejeon

Workshop 2

Analysis of Demographic data with GIS Technology
July 29 – August 2, 2019
Crown Harbor Hotel, Busan

Workshop 3

Methods for Analyzing the Life Course
August 5 – August 9, 2019
Ocloud Hotel, Seoul

Registration Deadline

June 14, 2019

Contact

Summer Seminar Secretariat
E-mail: popstat2019@gmail.com
Tel: +82-70-8892-5568, +82-70-8892-2643



The 6th KOSTAT-UNFPA Summer Seminar on Population

The KOSTAT-UNFPA Summer Seminar on Population has been serving as a forum for individuals and institutions concerning population-related issues in the Asia-Pacific region.

Three independent and consecutive workshops will focus on "Application of R to Demographic Analysis", "Analysis of Demographic data with GIS technology", and "Methods for Analyzing the Life Course" during the 6th KOSTAT-UNFPA Summer Seminar on Population. The workshops are expected to provide an opportunity for experts on demography and government officials in charge of population censuses and statistics around the world to promote new methods for producing and analyzing population statistics and demography.

Participants are encouraged to select one or more workshops among the three options. The language of every workshop will be English.

APPLICATION

- Requirements**
 - Fluency in English
 - Training and experience in a field relevant to the topic of the workshops
- Tuition**
 - Will be supported by KOSTAT
 - Responsible for own meals and lodging
 - Free half-day field trip for each workshop
 - * Limited funding (lodging & meals) for part of the full-time graduate students is available. (For more information, please contact the summer seminar secretariat.)
- Participants**
 - Around 30 people (per each workshop)
- Registration**
 - E-mail: popstat2019@gmail.com
- Deadline**
 - June 14, 2019
- Contact Information**
 - E-mail: popstat2019@gmail.com
 - Phone: +82.70.8892.5568, +82.70.8892.2643
 - * Cancellation is available only by July 5 (Fri), 2019.
- Certificates of completion under the name of the commissioner of the KOSTAT will be given to participants who successfully finish each workshop.**

WORKSHOP 1 | Application of R to Demographic Analysis

July 22 – July 26, 2019 / Statistical Training Institute, Daejeon



Guy Abel, Ph.D.

Professor,
School of Sociology and Political Sciences,
Shanghai University
Applied Statistician,
Asian Demographic Research Institute

This workshop focuses on the use of R statistical language for handling, investigating and displaying data, with a particular focus on data related to population studies. Practical hands-on exercises will be emphasized throughout the course to build up participants R experience. No prior knowledge of R is necessary, although participants should be comfortable using computers to handle data sets in statistical software (such as SPSS or Stata) and spreadsheets (such as Excel). Upon completion of this workshop, participants will be familiar with the R environment, its basic functions and more advanced methods from some of the most popular R packages for importing, manipulating and visualising data.

The workshop involves five sections:

- 1 An introduction to R, including basic R functions, accessing R packages and using RStudio effectively.
- 2 Visualizing data in R using the ggplot2 package, including basic charts, facet plots and maps.
- 3 Creating simple dynamic visualizations such as animations and interactive plots using the gganimate and shiny packages.
- 4 Managing demographic data in R using the tidyverse suite of packages, including reading data of different formats into R and summarizing, combining and reshaping data within R.
- 5 Using R markdown to efficiently turn your analyses into high quality documents, reports and presentations.

Students will gain experience in each of these areas through lectures interspersed with practical computing exercises. Besides experience of handling data using statistical software, participants should also have a basic knowledge of demography, mathematics and statistics.

WORKSHOP 2 | Analysis of Demographic data with GIS Technology

July 29 – August 2, 2019 / Crown Harbor Hotel, Busan



Seong-Yun Hong, Ph.D.

Professor,
Dept. of Geography,
Kyung Hee University



Jangik Jin, Ph.D.

Professor,
Dept. of Urban Planning and Real Estate,
Chung-Ang University

This workshop provides an overview of GIS-based methods for measuring and visualizing population segregation. Population segregation is an important demographic phenomenon as it can cause various negative impacts such as uneven development and social conflicts. Participants of this workshop will learn how to assess the overall level of segregation in a city and identify areas where certain population groups are clustered using spatial statistics. As the level of segregation is affected by the size of areal units, the workshop also introduces a couple of techniques for disaggregating census data into smaller spatial zones.

The five topics that will be covered in this five-day workshop include:

- 1 Theories on the causes and consequences of population segregation and empirical cases from around the world
- 2 Measuring and visualising population segregation using the seg package in R and QGIS
- 3 Modifiable areal unit problem (MAUP) and areal interpolation methods
- 4 Spatial distribution of elderly population and its social implications
- 5 Comparing the distributions of employment and population

Hands-on exercises are an important component of this workshop. The participants will use open source software R and QGIS for analysing population segregation and detecting hot spots where, for example, elderly people are concentrated. No prior experience of R and QGIS is assumed, but some knowledge of statistics would be helpful (not essential though).

WORKSHOP 3 | Methods for Analyzing the Life Course

August 5 – August 9, 2019 / Ocloud Hotel, Seoul



Edith Gray, Ph.D.

Head of School, School of Demography,
Australian National University

In this course we will introduce the main methods for analysing life events. We will consider a range of life events including leaving school, relationship timing, having children, employment, relationship dissolution (divorce, widowhood), and other life course event depending on the interests of participants.

The life course perspective considers how individual's lives are shaped by time and place. There are five key principles that include:

- 1 Life-span
- 2 Agency
- 3 Historical time and place
- 4 Timing of events
- 5 Linked lives

Requirements

- Laptop with Stata SE(14 or higher)
- Experience using Stata is recommended.
- A working knowledge of Excel.

Optional (not required)

- Participants may bring longitudinal data from their setting.
- Please contact the convenor in advance to determine whether the data is suitable.