

# Summer Seminar on Population

제9회 통계청-유엔인구기금 인구서머세미나



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.

Along with the plenary lecture on the first day of the program, three independent and consecutive workshops will focus on “R in Demography”, “Migration Estimation” and “Demographic Methods”.

These 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 suggested options.

## Application



### Requirements

- Training and experience in a field relevant to the topic of the workshop(s)
- Fluency in English (for Workshops 1 & 2) or Korean (for Workshop 3)



### Tuition: Free of charge (Supported by KOSTAT)

- Responsible for own meals and lodging (for offline participants)
- Responsible for own electronic devices (for online participants)
- \* Limited funding (lodging) for full-time graduate students is available (for offline participants)



### Size of class: Around 30 people (for each workshop)



### Registration: Online

☞ <http://intpopstat.kr/>



### Registration Deadline: July 13, 2022

\* After being accepted, cancellation of registration is available only by July 22, 2022



### Inquiry: Summer Seminar on Population Secretariat

✉ Email: [popstatssp@gmail.com](mailto:popstatssp@gmail.com) ☎ Tel: +82.70.4466.8030, +82.70.4466.9088

\*Considering the COVID-19 situation, this year's program will be conducted (1) both online and offline (for Plenary Lecture and Workshop 1), (2) online (Workshop 2), and (3) only offline (Workshop 3 – in Korean).

## Plenary Lecture: UNFPA's Role on Population Statistics under COVID-19 (English Lecture)



### July 27 (Wed), Daejeon

**LIVE** with online live stream via “Zoom”  
13:00-15:00 (Korea Standard Time)  
2-hour lecture



### Lecturer: Rachel Snow

Chief, Population and Development Branch,  
United Nations Population Fund

This year's Summer Seminar begins with the plenary lecture by Dr. Rachel Snow, Chief of Population and Development Branch at United Nations Population Fund (UNFPA). She will address the following major themes at the lecture:

- 1) how UNFPA adapted to COVID-19 in terms of population and housing census, the scale of delays, and the guidance of conducting census under COVID;
- 2) new data gathered under COVID-19 of what happened to Sexual and Reproductive Health and Rights (SRHR) in countries;
- 3) and the tracking UNFPA has undertaken to track how COVID-19 has impacted fertility across the world

## Workshop 1: R in Demography (English Lecture)



### July 27 (Wed) – August 5 (Fri), Daejeon

**LIVE** with online live stream via “Zoom”  
15:00-18:00 (Korea Standard Time)  
24-hour course



### Lecturer: Tim Riffe

Visiting Professor, Department of Sociology,  
University of the Basque Country

This workshop introduces the R statistical language with an emphasis on contemporary approaches to data wrangling, analysis, and demographic visualization. The lecturer will emphasize a reproducible approach to data analysis, using the R markdown system throughout the module. Concepts will be repeated through a series of worked examples and exercises.

Some core concepts of demography, such as life-table thinking and demographic decomposition, will be indirectly taught via these examples. Upon completion, participants will have worked through a wide array of data processing operations and visualization options, and will have the tools to continue learning.

No prior experience with R is required. Familiarity with common forms of demographic data, other statistical packages (e.g. STATA, SPSS, or others) and spreadsheets is assumed.

The workshop includes five sections:

- Session 1** An introduction to R, Rstudio, and basic R markdown
- Session 2** Basic tidyverse, including concepts for loading, aggregating, reshaping, and merging demographic data
- Session 3** Writing functions for advanced operations on data subsets
- Session 4** Visualizing data using the ggplot2
- Session 5** Advanced data processing and visualization pipelines for reproducible analyses

## Workshop 2: Migration Estimation (English Lecture)



### August 8 (Mon) – 12 (Fri), Online

15:00-18:00 (Korea Standard Time)  
15-hour course



### Lecturer: Guy Abel

Professor, School of Sociology  
and Political Sciences, Shanghai University

In many countries and regions, migration is becoming or already is the largest component of population change. However, migration data is often of poor quality, missing, or provided without disaggregation. Methods to estimate migration have been developed by demographers to help address shortfalls and provide a platform to better understand migration patterns and trends.

This workshop explores methods for measuring, estimating, and visualising migration, and their implementation in R. Upon completion of the workshop, participants will be familiar with useful R functions for handling migration data, a range of measures to summarise and compare migration systems, common estimation methods to overcome inadequate or missing migration data, and recently developed methods to visualize migration patterns.

Practical hands-on exercises will be emphasized throughout the workshop to build up participants' experience. Some prior knowledge is required on how to handle and plot data using the tidyverse set of R packages.

- Session 1** Migration measurement concepts and handling migration data in R
- Session 2** Estimating migration summary indices
- Session 3** Working with migration age schedules
- Session 4** Describing and estimating origin-destination migration patterns
- Session 5** Visualising migration patterns

## Workshop 3: Demographic Methods (Korean lecture)



### August 16 (Tue) – 19 (Fri), Seoul

10:00-16:00 (Korea Standard Time)  
20-hour course



### Lecturer: Bongoh Kye

Professor, Department of Sociology,  
Kookmin University

This workshop focuses on demographic methods. We will start our workshop by reviewing methods to describe demographic phenomena (e.g., fertility, mortality, and migration). Then, we will cover discrete event history analysis, methods to analyze “time to event” outcomes.

Participants are expected to learn how to describe demographic phenomena in detail and compare demographic patterns across groups.

\*Prerequisites: Basic statistics, Linear regression

- Session 1** Introduction: Population structure, process, and data
- Session 2** Understanding event-occurrence data
- Session 3** Mortality: Life tables
- Session 4** Marriage and Fertility
- Session 5** Multi-state life table
- Session 6** Population projection
- Session 7** Discrete-time hazard model, basic
- Session 8** Discrete-time hazard model, extension

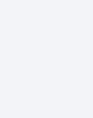
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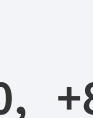
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