

Training Workshop on

# Demographic Analysis with Applications to Aging Societies

November 20 – December 1, 2017  
Bangkok, Thailand



This workshop is organized by the College of Population Studies, Chulalongkorn University and the International Institute for Applied Systems Analysis (IIASA), with funding provided by the European Research Council under the European Union's Seventh Framework Programme (FP7/2007-2013) / ERC under Grant ERC2012-AdG 323947-Re-Ageing.





## Overview

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This workshop is a training course on demographic analysis and computer applications with an emphasis on policy planning in aging societies and on population projections. The taught methods and concepts can be applied to perform typical tasks of demographic analysis, utilizing basic and advanced spreadsheet techniques in Microsoft Excel. The topics covered in the course are:

- Population age composition and its measures, period-cohort transformations, introduction to Excel advanced functions
- Advanced techniques of data presentation, interactive graphical systems
- Life tables and mortality analysis
- Fertility measures
- Stable populations
- Working with large data sets
- Introduction to Visual Basic for Applications (VBA)
- New measures of age and aging
- Model age patterns of vital rates, mortality, fertility, and migration
- Population projections, parameterized population projections
- Introduction to R for demographers
- Country case studies on aging

## Structure

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The workshop will be taught through a mixture of lectures, hands-on practical sessions and exercises. The course will run from 09.00 to 17.00 every day. Certification is based on the completion of daily assignments and on passing a final examination.

## Instructor

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The course is taught by Professor Sergei Scherbov, one of the world's leading experts in demographic computer applications and measuring aging based on people's characteristics. Prof. Scherbov is Deputy Program Director of IIASA's World Population Program, Director of Demographic Analysis at

the Wittgenstein Centre for Demography and Global Human Capital (IIASA, VID/ÖAW, WU), and Leader of the Population Dynamics and Forecasting Research Group at the Vienna Institute of Demography at the Austrian Academy of Sciences. He is also Affiliated Professor at the College of Population Studies, Chulalongkorn University, Thailand. He authored or co-authored about 200 scientific papers including 6 papers in Science and Nature.



## Prospective Applicants

The training workshop is designed for junior scientists, researchers and graduate students whose field of interest is related to population studies. It also suits early- to mid-career professionals working in statistical offices or research institutes. It also caters to those who teach demographic techniques at universities who wish to reinforce their skills and gain knowledge in advanced techniques regarding demographic analysis.



## Application Process

This year, we will be able to offer **10-15 full scholarships on a competitive basis**, based on merit and need. If you would like to be considered for a scholarship, please indicate so on the application form and provide a letter of motivation why it should be you who receives this funding (max. 1 page).

Workshop applicants are asked to fill in and return 1) the application form, 2) the questionnaire, 3) their CV and 4) the motivation letter (only if seeking funding from the organizers) to Dr. Wiraporn Pothisiri (Workshop Coordinator) at [agingcps2017@gmail.com](mailto:agingcps2017@gmail.com) by **July 15, 2017**. Applications will be reviewed and applicants will be notified about the outcome by **August 18, 2017**. Kindly note that there may be a quota for the number of participants.

## Workshop Venue

The workshop will take place at the College of Population Studies, Chulalongkorn University, Bangkok.

## Course Fee Options

	Payment before Sept 20	Payment after Sept 20
Course fee	€900	€1,000
Course fee & accommodation	€1,400	€1,500

Course fee includes course materials, lunches, and refreshments. Early payment of course fee and accommodation is highly suggested. All payments must be made by **October 6, 2017**. Please note that no course fees will be refunded for cancellations after **October 23, 2017**. Accommodation booking is non-changeable and non-refundable, if booked via organizers.

The estimated cost of living in Bangkok, excluding accommodation, is about **400-600 Baht (10-15€)** per day.

## Contact Information

For queries, please contact Workshop Coordinator:

Dr. Wiraporn Pothisiri  
College of Population Studies  
Chulalongkorn University  
Visid Prachuabmoh Building  
Payathai, Patumwan  
Bangkok 10330, Thailand

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Fax: (+66) 02-255-1469  
Email: [agingcps2017@gmail.com](mailto:agingcps2017@gmail.com)

Or visit our website at: <http://www.cps.chula.ac.th/newcps/>  
or [www.iiasa.ac.at/pop/DAAA-apply](http://www.iiasa.ac.at/pop/DAAA-apply)

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## Application Form

(Please type or use CAPITAL letters as stated in the passport)

Title:                      Dr.                       Mr.                       Mrs.                       Ms.

Family name: \_\_\_\_\_ Given name: \_\_\_\_\_

Sex:    M  F  Date of Birth: (DD/MM/YY) \_\_\_\_\_ Nationality: \_\_\_\_\_

Current position/Job Title: \_\_\_\_\_

Institutional Affiliation: \_\_\_\_\_

Institutional mailing address: \_\_\_\_\_

Country of Residence: \_\_\_\_\_

Phone Number:        Office: \_\_\_\_\_ Home: \_\_\_\_\_

Fax Number: \_\_\_\_\_ Email: \_\_\_\_\_

Please check relevant boxes

**Fees:**                       Course fee    €900 (1,000 after Sept. 20)

Course fee and 14-night accommodation                      €1,400 (1,500 after Sept. 20)

**Source of funding:**     Self-funded through current institution/affiliation

Self-funded through \_\_\_\_\_

I would like to apply for one of the scholarships

**Dietary requirements:**     Vegetarian     Halal food     Gluten free

A special diet (Please specify): \_\_\_\_\_

Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

## QUESTIONNAIRE FOR COURSE APPLICANTS

This questionnaire's purpose is to estimate the level of knowledge of applicants in the areas covered in the course to customize the workshop to their prospective needs. *Kindly keep in mind that basic knowledge of working with spreadsheets is expected and explanations of basic functions during the workshop will be limited to be able to cover the range of topics.*

**Please fill in the form using the following symbols:**

- ++ I know the subject or I can calculate this indicator or I know how to apply this function.
- + I heard about this subject, indicator or function. But I have never calculated it or used it myself.
- I have some vague idea about this subject.
- I have no idea about this.

Subject, indicator, function	Level of knowledge
<b>1. Selected demographic indicators of models</b>	
1.1. Age specific mortality, fertility, migration rates	
1.2. Total fertility rate	
1.3. Life tables	
1.4. Population projections (cohort-component method)	
1.5. Gamma fertility model	
1.6. Brass relational logit model (mortality)	
<b>2. Working with Excel</b>	
2.1. Navigation in a workbook, entering data in a worksheet	
2.2. Using simple formulas	
2.3. Ranges. Copying and moving ranges with data and formulas	
2.4. Relative and absolute cell reference in Excel	
2.5. Making charts	
2.6. Excel functions: INDEX, MATCH, VLOOKUP, HLOOKUP	
2.7. Pivot tables	
2.8. Excel's linear regression functions	
2.9. Using Visual Basic for Applications (VBA)	
<b>3. General skills</b>	
3.1. Linear interpolation	
3.2. Linear regression	
3.3. Non-linear regression	