Demography and Event History Analysis using R
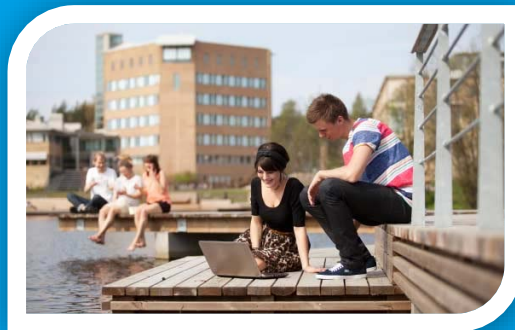
June 1-12 2015

Summer Course
at CEDAR
Umeå University
Umeå, Sweden

capa.ddb.umu.se/cedar15

UMEÅ UNIVERSITET

About CEDAR

CEDAR is a brand new center at Umeå University, which includes both The Demographic Data Base (DDB) and a research department.

FOR MORE INFORMATION, PLEASE CONTACT:

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The course is organized by the **European Historical Population Samples Network** (EHPS-Net), the **Graduate School in Population Dynamics and Public Policy** (GSPDPP), and the **Center for Demographic and Aging Research** (CEDAR), under the auspices of European Science Foundation. There is no tuition fee, and lodging costs will be covered. A limited number of travel and accommodation grants will also be provided.

The course is advanced in more than one way. First, it revolves around event history and survival analysis in a demographic context, utilizing individual continuous-type data describing life histories or register data, where individuals are observed in principle once a year. Standard software for e.g. Cox regression is not sufficient for dealing with all aspects of these kinds of data, and for that reason the expandable and flexible R environment for data analysis and management is introduced. Also, RStudio is presented as a user-friendly integrated development environment (IDE) on top of R. Both R and RStudio are free and open-source, and works equally well on Linux, Mac and Windows.

Second, the "literate programming" approach is introduced. Instead of writing code that contains documentation, emphasis is reversed to writing documentation containing code. This documentation is typically a research paper or report to be published, and this way of working leads to easy reproducible research and is well supported within the RStudio IDE.

Prerequisites

- Knowledge of basic demographic and statistical methods.
- Applicants should either be enrolled in an MSc or PhD program or have recently received their PhD.
- Applicants must have a research agenda where the analysis of life course data is essential, and where taking this course would be of substantial importance.
- A working knowledge of the English language is essential, since all teaching activities, including written material, are given in English.

Application

The application deadline is April 27, 2015.

More detailed information under Application: capa.ddb.umu.se/cedar15/Application/

Information about the EHPS-Net programme

There are currently eight different courses organized in the EHPS-Net programme: Two at *basic level*, on theoretical aspects in historical demography in Amsterdam (IDS) and Cluj, two *more advanced courses*, focusing both on theoretical and practical aspects of historical demography, in Lund and Nijmegen/Leuven, and finally four *advanced courses*, in Amsterdam (IDS extraction), Lund (GIS), Umeå (demography and event history analysis) and Geneva (statistics).