

# Short Course: Panel surveys in social and economic research and the treatment of nonresponse, spring 2014

## Short Course: Panel surveys in social and economic research and the treatment of nonresponse, spring 2014

### Lecturer

[Ulrich Rendtel](#)

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Prof. Rendtel teaches Applied Statistics at the Economic Department of the Freie Universität Berlin. He worked for 9 years in the German Socioeconomic Panel (SOEP) project, a household panel survey started in 1984. He collaborated with Statistics Finland in an evaluation project of the Finnish subsample of the European Community Household Panel (ECHP) and EU-SILC. His recent research is on nonresponse and calibration in panel surveys. Prof. Rendtel also serves as Adjunct Professor (Docent) for University of Helsinki.

### Type

Advanced studies. The orientation is applied.

### Code

796122

### Scope

Lectures and PC classes: 20 hours

### Credits

4 ECTS credits with passed exam

Optional: 2 ECTS credits with completed practical work (Homework)

Total: 6 ECTS credits

### Description

The course will give an overview under four aspects: (a) Study design of panel surveys, (b) Some substantive considerations on the special nature of non-response in panel survey, (c) The methodological approaches to treat with nonresponse in panel surveys, (d) Empirical examples from the above mentioned surveys.

### Target group

The course is intended to fit to studies in quantitative methods for post-graduate (doctoral) students in social and behavioral sciences and economics. The course also can be taken as advanced studies in statistics for students in statistics and mathematics.

### Number of students

Max. 24 students

### Schedule and venue

Lectures and PC training are given at **SSKH IT-sal** (Snellmaninkatu 12, 1st floor):

Monday 24.2. at 12-16

Tuesday 25.2. at 9-12, 13-16

Wednesday 26.2. at 9-12, 13-16

Thursday 27.2. at 9-13

An option is offered for practical training with the methods introduced in the lectures. PC training takes place in the course of the lectures. PC training sessions will be helpful for completing the practical work.

### Exam

Date: Wed. 12 March 16:00-18:00 hours at Unioninkatu 37 seminar room 4 (U37 SH4)

NOTE: The exam is of "open book" type so one can have access to the lecture notes, for example (please take with you the final lecture notes pdf!).

**\*\*NEW\*\*** [Exam paper and answers](#)

### Materials

#### Lecture materials

[Lecture Slides](#)

#### PC training materials

[SAS code for Monday 24 Feb.](#)

[SAS code for Tuesday 25 Feb.](#)

[SAS code for Wednesday 26 Feb.](#)

[Exercises](#)

[Solution to Exercise 11](#)

[Lem Software](#)

[SAS Web Editor](#)

## **Data**

[SAS data sets](#) (zipped folder)

## **Practical work (Homework)**

[Homework Exercises](#)

## **Literature**

[Andreß-Golsch-Schmidt \(2013\)](#) Applied Panel Data Analysis for Economic and Social Surveys. Springer.

[Gelman-Hill \(2007\)](#) Data Analysis Using Regression and Multilevel/Hierarchical Models. Cambridge University Press.

[Vonesh \(2012\)](#) Generalized Linear and Nonlinear Models for Correlated Data: Theory and Applications Using SAS. SAS Institute Inc.

## **Information**

Prof. Risto Lehtonen ([risto.lehtonen@helsinki.fi](mailto:risto.lehtonen@helsinki.fi))

## **Registration**

Did you forget to register? [What to do.](#)