Event History Analysis

Lecturer: Juho Härkonen (Stockholm University)

Organised by Giuliana Giuliani
Sponsored by Fabrizio Bernardi

2, 5, 6 June 2017
Seminar Room 2, Badia Fiesolana

Credits: 10

Register online

Contact: Monika.Rzemieniecka@eui.eu

Course description
A dear child has many names, but event history analysis, survival analysis, duration data analysis, time-to-event analysis, and intensity regression all refer to the same group of methods which are a central part of the researcher's toolbox in in life course sociology, demography, epidemiology, and related disciplines. Event history analysis are used to analyze transitions between discrete states and how long it takes to complete them, and can be used to analyze multiple topics such as mortality, divorce, entry to employment, occupational change, and bankruptcies. This course introduces to the use of event history with Stata. The course consists of lectures and independent work on given assignments.

Core readings
Blossfeld, H-P, Golsch, K. & Rohwer, G. 2007. Event History Analysis Using Stata. Lawrence Erlbaum. (BGR)
Cleves, M., Gutierrez, R.G., Gould, W. & Marchenko, Y.V. 2010 (or later). An Introduction to Survival Analysis Using Stata. Stata Press. (CGGM)

Preparations
Each lecture has preparatory readings assigned to them. Please familiarize yourself with them before class. Note that some of the readings are partly overlapping; what matters is not that

you remember each page but that you have an initial understanding of the key concepts and methods that will support your learning process. The data we use during the lectures and assignments comes from the European Social Survey 2006. Please register as a user before the course at http://www.europeansocialsurvey.org/user/new.

Optionally, you can use your own data for the assignments. This can be a good option for those who already know that they will be using event history analysis in their own research.
We will be using Stata, so unless you have it on your laptop, please install it or check that your license is valid.

Assessment
You will work on a small research project during the course, either using data from ESS and pre-assigned questions or your own data and questions.

Schedule
Friday, 2 June
9:00-13:00   Introduction and descriptive analysis
Afternoon: Independent work on the assignments

Preparatory readings
BGR, Chapters 1-3
CGGM, Chapters 1-8

Monday, 5 June
9:00-13:00   Event history regression: exponential and piecewise constant exponential analysis
Afternoon: Independent work on the assignments

Preparatory readings
BGR, Chapters 4-6
CGGM, Chapter 14
Bernardi, Fabrizio (2001). Is it a timing or probability effect? Quality and Quantity 35(3): 231-252. doi:10.1023/A:1010377327277

Tuesday, 6 June
9:00-14:00   Additional topics: discrete-time, competing risks, Cox regression
               Presentation and feedback on the assignments

Preparatory readings
BGR, Chapter 9
CGGM, Chapters 9-11, 17
Allison, P. (1984) Event History Analysis. Sage, pages 14-22
Coviello, V. and Boggess, M. 2004. Cumulative incidence estimation in the presence of competing risks. The Stata Journal 4(2): 103-112.