CALL FOR PAPER
XV ITALIAN STATA USERS GROUP MEETING

Bologna, 15-16 November 2018

This year's Italian Stata Users Group meeting takes place in Bologna on the 15th and 16th November 2018. The meeting offers users working in different research areas, a unique opportunity to exchange ideas, experiences and information on user written routines and applications developed in Stata. Stata users interested in contributing to the meeting are encouraged to submit their proposals to the scientific committee by the **15.9.18**.

As in previous years, the meeting will focus on:

• the development of new user written commands or procedures currently unavailable in Stata
• the use of Stata in previously unpublished empirical research. Research adopting commands/methodologies new to Stata 15, are particularly welcome
• other applications of Stata of general interest, such as data management or teaching with Stata, are also encouraged

The second day of the meeting, is dedicated to our annual Stata training course "Joint Modelling of Survival and Longitudinal Data" held by Michael J. Crowther (*Department of Health Sciences, University of Leicester*). Please note that the course will be taught in English.

SUBMISSION OF ABSTRACTS

Authors, interested in presenting their work, are requested to submit an abstract to the scientific committee in electronic format to statausers@tstat.it by the **15.9.2018.** The author's name, affiliation, and a telephone number should be included in the email. Presentations are "normally" 25 minutes long, followed by 10 minutes of discussion, longer presentations are however, also welcome. In such cases however, it would be appreciated if authors also indicated an estimated presentation time. A preliminary selection will be made by the scientific committee, on the basis of submitted abstracts, by the **26.9.2018.** The final version of the paper must be submitted to the conference organizer by the **28.10.2018**.

REGISTRATION FEES

The XV Italian Stata Users Group Meeting will take place in Bologna at "I Portici Hotel Bologna" in Via Indipendenza, 69 www.iporticihotel.com the 15th and 16th of November 2018.

Meeting Only:
Students*: € 62.00
Others: € 95.00

Training Course Only:
Students* € 227.00
Others: € 350.00

Meeting and Training Course:
Students* € 244.00
Others: € 375.00

*To be eligible for student prices, participants must provide proof of their full-time student status for the current academic year.

All fees are subject to VAT (applied at the current Italian rate of 22%).

Conference fees include coffee breaks, lunch, course materials and for participants attending a training course, a temporary licence of Stata. Conference participants are also entitled to a 20% discount on Stata Press texts and single user standard (Stand Alone) licences of Stata/IC, Stata/SE and Stata/MP.

To request a registration form please email statausers@tstat.it.

Duly completed registration forms must be submitted to us by the **5.11.2018**.

SCIENTIFIC COMMITTEE

Una-Louise Bell
Rino Bellocco
Giovanni Capelli
Maurizio Pisati

CONTACTS

Monica Gianni
Via Rettangolo, 12-14 | 67039 Sulmona (AQ)
T. +39 0864 210101 | F. +39 0864 206014
statausers@tstat.it

www.tstattraining.eu | www.tstat.it | www.tstat.eu

INVITED SPEAKER AND TRAINING COURSE

Michael J. Crowther , Department of Health Sciences University of Leicester

Multi-state models are increasingly being used to model complex disease profiles. By modelling transitions between disease states, accounting for competing events at each transition, we can gain a much richer understanding of patient trajectories and how risk factors impact over the entire disease pathway. In this talk, I'll introduce some new Stata commands for the analysis of multi-state survival data. This includes -**msset**-, a data preparation tool which converts a dataset from wide (one observation per subject, multiple time and status variables) to long (one observation for each transition for which a subject is at risk for). -**msaj**- calculates the non-parametric Aalen-Johansen estimates of transition probabilities. -**msboxes**- creates a descriptive plot of the multi-state process through the transition matrix and numbers at risk. -**stms**- fits joint transition-specific survival models, allowing each transition to have a different parametric model, yet maximised jointly to enable sharing of covariate effects across transitions. -**predictms**- calculates a variety of predictions from a multi-state survival model, including transition probabilities, length of stay (restricted mean time in each state), the probability of ever visiting each state and more. Predictions are made at user-specified covariate patterns. Differences and ratios of predictions across covariate patterns can also be calculated. Standardised (population-averaged) predictions can be obtained. Confidence intervals for all quantities are available. Simulation or the Aalen-Johansen estimator are used to calculate all quantities. User-defined predictions can also be calculated by providing a user-written Mata function, to provide complete flexibility. -**predictms**- can be used with a general transition matrix (cyclic or acyclic) and allows the use of transition-specific timescales. I will illustrate the software using a dataset of patients with primary breast cancer.

TRAINING COURSE | JOINT MODELLING OF LONGITUDINAL AND SURVIVAL DATA

The joint modelling of longitudinal and survival data has been an area of growing interest in recent years, with the benefits of the approach becoming recognised in ever widening fields of study. The models can provide both an effective way of conducting an analysis of a survival endpoint (e.g. time to death), influenced by a time-varying covariate measured with error, or alternatively correct for non-random dropout in the analysis of a longitudinal outcome (e.g. a biomarker such as blood pressure). This one-day course will provide an introduction to joint modelling through real applications to both clinical trial data and electronic health records, using examples in cancer and liver cirrhosis. We will study the methodological framework, underlying assumptions, estimation, model building and predictions. We will also consider current developments in the field, looking at some of the many extensions of the standard framework, such as the ability to model multiple biomarkers and competing risks. The course will consist of lectures and computing exercises making use of the *stjm* and *megenreg* packages in Stata, written by the course lecturer.

TARGET AUDIENCE: This one day workshop is of particular interest to biostatisticians, epidemiologists, applied statisticians and researchers or professionals working in economics, the social sciences or public health wishing to carry out survival analysis on longitudinal/panel data in their applied research.

REQUISITES: Participants should be familiar with Stata. A working knowledge of survival analysis and an introductory knowledge of panel data is required.

COURSE OUTLINE

- Introductions
- Lecture 1: Survival analysis, longitudinal analysis and their combination
- Lecture 2: Joint modelling of longitudinal and survival data
- Lecture 3: Extended association structures and predictions
- Lecture 4: Further topics in joint modelling

GENERAL INFORMATION

The maximum number of participants permitted will be restricted to 15.

Individuals interested in attending the Italian Stata User's Meeting must return their completed registration forms either by email (formazione@tstat.it) or by fax (+39 0864 206014) to TStat by the 5h of November 2018.

Further details regarding our registration procedures, including our commercial terms and conditions, can be found at https://www.tstat.it/utenti/xv-convegno-italiano-degli-utenti-di-stata/