SPLIT SUMMER SCHOOL STSS2018

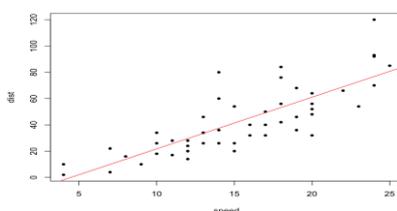## COURSE: DATA ANALYSIS IN R – FOR SOCIAL, HUMANITIES AND BIOMEDICAL RESEARCH

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Web page: http://www.unist.hr/split-summer-school-2018
Main topics:

- • Introduction to the basis of the R, RStudio and concept of open source packages
- • Application of R in social sciences, biomedicine and humanities
- • Basic statistics (tables and figures), inferential and multivariate statistical procedures
- • Reports and writing manuscript with knitr

Programme structure:

- • 5-day course
- • Sample data will be provided for practice and for final presentation
- • Every student gets lecture notes bound into a booklet, as well as a CD containing a digital version of the booklet

Important dates:
Course dates: 03/09/2018 – 07/09/2018
Deadline for application: 01/07/2018
Payment due by: 10/07/2018
Confirmation of the course: 15/07/2018

Price of the course: 300 € (tax included)
Bed & breakfast: 191,36 € (tax included) – contact person: Marina Kero   marina.kero@scst.hr

Programme plan:

Day 1
- Introduction to the basis of R (1h)
- Installing R, RStudio and loading packages from CRAN. Loading and
  saving data, storing text data, numbers and vectors (2h)
Day 2
- Data frames, matrices and manipulation with data and variables. (1h)
- Individual work/exercise (3h)
Day 3
- Descriptive statistics (measures of central tendence and variability) –
  tables, drawing graphs – differences among packages (1h)
- Individual work/exercise (3h)
Day 4
- Inferential statistics through categorical data analysis, comparing
  means and variances: tables and drawing graphs for T – test, ANOVA,
  correlations, nonparametric procedures (1h)
- Individual work/exercise (3h)
Day 5
- Multivariate statistics, psychometric theory, and latent structure of
  data (Item analysis, regression model, factor analysis, SEM) (1h)
- Final presentations (3h)

Programme lecturer:
Dr Goran Kardum, Associate Professor,
    University of Split, Faculty of Humanities and
    Social Sciences
    Croatian Scientific Bibliography