

# The R User Conference 2013

The ninth R user conference will take place at the University of Castilla-La Mancha, Albacete, Spain from Wednesday 10 July 2013 to Friday 12 July 2013. Following previous *useR!* conferences, this meeting of the R user community will

- focus on R as the ‘lingua franca’ of data analysis and statistical computing;
- provide a platform for R users to discuss and exchange ideas on how R can be used for statistical computation, data analysis, visualization and exciting applications in various fields;
- give an overview of the new features of the ever evolving R project.

As with the predecessor conferences, the program consists of two parts:

- invited talks discussing new R developments and exciting applications of R
- user-contributed presentation reflecting the wide range of fields in which R is used to analyze data.

A major goal of the *useR!* conference is to bring users from various fields together and provide a platform for discussion and exchange of ideas: both in the formal framework of presentations as well as in the informal times surrounding the conference sessions.

## Invited speakers

The invited talks represent the spectrum of interest from important technical developments to exciting applications of R, presented by experts in the field:

- *María Jesús Bayarri*: New challenges and Bayes: The world of computer models.
- *José Manuel Benítez-Sánchez*: Computational Intelligence in R.
- *Duncan Murdoch*: What’s new in R3.0.X.
- *Havard Rue*: Bayesian computing with INLA and the R-INLA package.
- *Steve Scott*: Bayesian computation in C++ with R as an interface.
- *Hadley Wickham*: BigR data

## User-contributed sessions

In the contributed sessions, presenters will share innovative and interesting uses of R, covering topics such as:

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| • Bayesian statistics                    | • Imaging                                  |
| • Bioinformatics                         | • Interfaces with other languages/software |
| • Chemometrics and computational physics | • Machine learning                         |
| • Data mining                            | • Multivariate statistics                  |
| • Econometrics & finance                 | • Nonparametric statistics                 |
| • Environmetrics & ecological modeling   | • Pharmaceutical statistics                |
| • High performance computing             | • Psychometrics                            |

- Spatial statistics
- Statistics in the social and political sciences
- Teaching
- Visualization & graphics

The poster session will be a major social event on the evening of the first day of the conference. Contributed talks will be organised in the following types of session:

- *useR! Kaleidoscope*: These sessions give a broad overview of the many different applications of R and should appeal to a wide audience.
- *useR! Focus Session*: These sessions cover topics of special interest and may be more technical.

In both cases presentations will be allowed 17 minutes, followed by 3 minutes discussion. In addition to the regular contributed talks, all participants are invited to present a *Lightning Talk*, for which no abstract is required. These talks provide a 5-minute platform to speak on any R-related topic and should particularly appeal to R newbies. Participants wishing to give such a talk must provide an informative title.

## Pre-conference tutorials

Before the start of the official program, the following half-day tutorials will be offered on Tuesday, July 9th:

- *Esteban Alfaro, Matías Gámez and Noelia García*: Classification with Individual and Ensemble Trees
- *Jason Bryer and Robert Pruzek*: Introduction to Propensity Score Methods with R
- *Romain François and Hadley Wickham*: C++ and Rcpp for beginners
- *Markus Gesmann and Diego de Castillo*: Interactive web graphics with R and googleVis
- *Garrett Grolmund*: Data visualization with ggplot2
- *Stephanie A. Kovalchik*: Performing Meta-Analysis with R
- *Mark van der Loo and Edwin de Jonge*: An introduction to data cleaning with R
- *Martin Morgan*: R/Bioconductor for Analysis and Comprehension of High-throughput Genomic Data
- *George Ostrouchov and Drew Schmidt*: Programming with Big Data in R
- *Xavier de Pedro*: Web 2.0 interfaces for R with Tiki
- *Havard Rue*: Bayesian computing with INLA: An introduction item
- *Roger Bivand*: Using Spatial Data
- *Karim Chine*: R and Cloud Computing for Higher Education and Research
- *Andrea Dessi, Enrico Branca, Federico Figus*: Applied Financial Analysis and Human Capital Risk Management
- *Marco Scutari*: Learning Bayesian Networks in R: an Example in Systems Biology
- *Max Kuhn*: Predictive Modeling with R and the caret Package
- *Rui Paulo and Jesús Palomo*: Statistical Analysis of Computer Models using R
- *Josh Paulson and Joe Cheng*: Developing web applications with R and shiny

- *Pete Philipson*: Joint Modelling of Repeated Measurements and Time-to-Event Data
- *Andy South*: Making beautiful world maps with country-referenced data using `rworldmap` and other R packages
- *Tobias Verbeke and Stephan Wahlbrink*: Eclipse/StatET and Architect for Professional R Development
- *Alex Zolotovitski*: How to work with large R projects

## Data analysis contest

We are pleased to announce the Data Analysis Contest for *useR!* 2013 attendants: <http://www.edii.uclm.es/~useR-2013/#contest>. Check the rules, download the data and send your proposal to win the prize!

## Location & surrounding area

The University of Castilla-La Mancha is the only university in the region and it is divided into several campuses. The conference will take place at the campus in Albacete. Information and useful links on the numerous and famous attractions in the area surrounding the University of Castilla-La Mancha in Albacete can be found at the Castilla-La Mancha Tourism website <http://www.visitclm.com/>.

## Further information

A web page offering more information on *useR!* 2013, including details regarding registration, is available at <http://www.r-project.org/useR-2013/>

We hope to meet you in Albacete!

Esteban Alfaro-Cortés, José Luis Alfaro-Navarro, María Teresa Alonso-Martínez, Emilio L. Cano, Gonzalo García-Donato, Matías Gámez-Martínez, Noelia García-Rubio, Virgilio Gómez-Rubio and Francisco Parreño-Torres.

The organizing committee, [useR-2013@r-project.org](mailto:useR-2013@r-project.org)

