



Program Overview

	Thursday, May 20	Friday, May 21	Saturday, May 22
	08:00-08:45 Registration 08:45-09:00 Opening		
09:00-10:30	Keynote Lectures (Room: HS1) Chair: Douglas Bates Paul Murrell <i>grid Graphics and Programming</i> Martin Mächler <i>Good Programming Practice</i> Coffee Break	Keynote Lectures (Room: HS1) Chair: Paul Murrell Luke Tierney <i>Namespaces & Byte Compilation</i> Kurt Hornik <i>Packaging, Documentation, Testing</i> Coffee Break	Keynote Lectures (Room: HS1) Chair: Kurt Hornik Friedrich Leisch <i>S4 Classes and Methods</i> Peter Dalgaard <i>Language Interfaces (.Call & .External)</i> Coffee Break
10:30-10:50	Coffee Break	Coffee Break	Coffee Break
10:50-12:40	The useR! World (Room: HS1) Kaleidoscope 1 (Chair: Martyn Plummer)	The useR! World (Room: HS1) Kaleidoscope 2 (Chair: Brian D. Ripley)	The useR! World (Room: HS1) Kaleidoscope 3 (Chair: Roger Bivand)
	useR! Island Preview by John Fox: Teaching & User Interfaces	useR! Island Preview by Roger Bivand: Spatial Statistics	The R Foundation introduced by Friedrich Leisch
12:40-14:00	Lunch	Lunch	Lunch
14:00-14:45	Keynote Lecture (Room: HS1) Chair: Martin Mächler Douglas Bates <i>Multilevel Models in R: Present & Future</i> Coffee Break	Keynote Lecture (Room: HS1) Chair: Peter Dalgaard Brian D. Ripley <i>Datamining: Large Databases and Methods</i> Coffee Break	Trip to the Wachau, visit of Stift Melk & Conference Dinner Departure in Vienna: 14:30
14:45-15:15	Coffee Break	Coffee Break	Coffee Break
15:15-16:30	The useR! World (semi-plenary) Finance (HS1) Chair: Dirk Eddelbuettel useR! Island Preview: Finance, Econometrics, Models & Inference useR! Islands (Room: Prechtl-Saal, Main Building) Biostatistics (Chair: Andy Liaw) Ecology (Chair: Martyn Plummer) Finance (Chair: Dirk Eddelbuettel) Models & Inference (Chair: Duncan Murdoch) Teaching (Chair: John Fox) User Interfaces (Chair: Uwe Ligges)	The useR! World (semi-plenary) Interfaces (HS1) Chair: Martin Theus useR! Island Preview: Connectivity, Software useR! Islands (Room: Prechtl-Saal, Main Building) Applications (Chair: Marc Schwartz) Bioinformatics (Chair: Axel Benner) Connectivity (Chair: Simon Urbanek) Data Analysis (Chair: Martin Theus) Econometrics (Chair: Roger Koenker) Software (Chair: Friedrich Leisch) Spatial Statistics (Chair: Roger Bivand)	
	Biostatistics (HS5) Chair: Axel Benner useR! Island Preview: Biostatistics, Bioinformatics, Ecology	Data Analysis (HS5) Chair: Uwe Ligges useR! Island Preview: Applications, Data Analysis	
16:45-18:15	useR! Islands (Room: Prechtl-Saal, Main Building) Biostatistics (Chair: Andy Liaw) Ecology (Chair: Martyn Plummer) Finance (Chair: Dirk Eddelbuettel) Models & Inference (Chair: Duncan Murdoch) Teaching (Chair: John Fox) User Interfaces (Chair: Uwe Ligges)	useR! Islands (Room: Prechtl-Saal, Main Building) Applications (Chair: Marc Schwartz) Bioinformatics (Chair: Axel Benner) Connectivity (Chair: Simon Urbanek) Data Analysis (Chair: Martin Theus) Econometrics (Chair: Roger Koenker) Software (Chair: Friedrich Leisch) Spatial Statistics (Chair: Roger Bivand)	

Thursday, May 20

useR! World Sessions

Thursday 20 10:50-12:40	Kaleidoscope 1 (Chair: Martyn Plummer, Room: HS1) Chris Volinsky <i>Graph Data in R, a User's Perspective</i> Andrew Martin and Kevin Quinn <i>MCMCpack: An Evolving R Package for Bayesian Inference</i> Jim Porzak <i>Doing Customer Intelligence with R</i> Simon Urbanek <i>Using R in other Applications - various practical ways to integrate an own software and R</i> John Fox <i>Getting Started with the R Commander: A Basic-Statistics Graphical User Interface to R</i>
Thursday 20 15:15-16:30	Finance (Chair: Dirk Eddelbuettel, Room: HS1) Dirk Eddelbuettel <i>Programming with financial data: Connecting R to MIM and Bloomberg</i> Giles Heywood <i>Irregular Time Series in a Financial Risk Model</i> Bernhard Pfaff <i>useR! - at an investment bank?</i>
Thursday 20 15:15-16:30	Biostatistics (Chair: Axel Benner, Room: HS5) Frank Bretz, Torsten Hothorn and Peter Westfall <i>On Multiple Comparisons in R</i> Michael G. Schimek and Wolfgang Schmidt <i>An empirical Bayes method for gene expression analysis in R</i> David Firth <i>Structured Bradley-Terry models, and flat lizards fighting</i>

useR! Island Sessions

Thursday 20 16:45-18:15	Biostatistics (Chair: Andy Liaw, Room: Prechtl-Saal, Main Building) Oliver Sailer <i>crossdes - A Package for Design and Randomization in Crossover Studies</i> Christian Ritz and Jens C. Streibig <i>Bioassay analysis using R</i> Christopher Jackson <i>Multi-state Markov modelling with R</i> Maarten Schipper, Monique Breteler and Theo Stijnen <i>Multiple Imputation and Model Selection in Cox Regression: Estimating the Risk of Dementia in Elderly</i> M.Reza Keyhani, Mahtab Roohi-Azizi, Ismaeel Ebrahimi, Mina Milani, Elaheh Zowghi and Hossain Talebi <i>Anova for Repeated Measures and Skewed Response Variable: Two Examples from Medical Fields</i>
Thursday 20 16:45-18:15	Ecology (Chair: Martyn Plummer, Room: Prechtl-Saal, Main Building) Martin Schlather and Bernd Huwe <i>Modelling water flux</i> Eric Gilleland, Rick Katz and Greg Young <i>The Extreme Value Toolkit (extRemes): Weather and Climate Applications of Extreme Value Statistics</i> Roberto Rea, Giambattista Toller and Emanuele Eccel <i>Using R for producing a monthly Agrometeorological report</i> Laurence Kell, Philippe Grosjean, David Die and Robert Scott <i>FLR, A Framework For Fisheries Management In R Using S4 Classes</i> Alan Swanson, Jennifer Sheldon and Robert Crabtree <i>Using R to Analyze Space Use by Wildlife</i>

<p>Thursday 20 16:45-18:15</p>	<p>Finance (Chair: Dirk Eddelbuettel, Room: Prechtl-Saal, Main Building)</p> <p>Harald Schmidbauer <i>Determining Extreme Returns on Stock Indices</i></p> <p>John Gavin <i>Portfolio modelling of operational losses</i></p> <p>John Randal <i>Option pricing using R</i></p> <p>John Randal and Peter Thomson <i>Teaching applied finance using R</i></p> <p>Diethelm Wuertz <i>Rmetrics - An Environment for Teaching Financial Engineering and Computational Finance</i></p>
<p>Thursday 20 16:45-18:15</p>	<p>Models & Inference (Chair: Duncan Murdoch, Room: Prechtl-Saal, Main Building)</p> <p>Alessandra Rosalba Brazzale and Ruggero Bellio <i>hoa -- A package bundle for higher order likelihood inference</i></p> <p>Bettina Grün and Friedrich Leisch <i>BayesMix: An R package for Bayesian Mixture Modelling</i></p> <p>Angi Rösch <i>Fitting the Generalized Pareto Distribution to Threshold Exceedances of Stock Index Returns in Bull and Bear Periods</i></p> <p>Xavier Font Aragonés <i>Relaxing Error Assumptions on Dynamic Models</i></p> <p>Helgi Tomasson <i>Signal noise decomposition of financial data: An infrequent trading analysis</i></p>
<p>Thursday 20 16:45-18:15</p>	<p>Teaching (Chair: John Fox, Room: Prechtl-Saal, Main Building)</p> <p>Thomas Baier and Erich Neuwirth <i>Using R in a Distributed Computer Lab for Statistics Courses</i></p> <p>Christian Grune, Albert Geukes and Negar Razi <i>The Statistical Lab - Teaching and Learning Statistics</i></p> <p>Mieke Vandewaetere, Eva Van den Bussche and Yves Rosseel <i>Using R and SPSS simultaneously in teaching statistics: A tricky business</i></p> <p>Zdenek Valenta <i>Exploiting Simulation Features of R in Teaching Biostatistics</i></p>
<p>Thursday 20 16:45-18:15</p>	<p>User Interfaces (Chair: Uwe Ligges, Room: Prechtl-Saal, Main Building)</p> <p>Eric Lecoutre and Philippe Grosjean <i>SciViews package: the SciViews package and its object browser</i></p> <p>James Wettenhall <i>GUI Development with R-wxPython and BoaConstructor</i></p> <p>Vojtech Janousek, Colin Farrow and Vojtech Erban <i>Opening the treasury of R language to a wider scientific community: GCDkit, a package for interpretation of geochemical data</i></p> <p>Chad Shaw, Nathan Whitehouse and Andrew Young <i>Rho: An Integrated System for R-based Web Applications</i></p> <p>Juan M. Vaquerizas, Joaquín Dopazo and Ramón Díaz-Uriarte <i>Merging R into the web: DNMAAD and Tnasas, web-based resources for microarray data analysis</i></p> <p>Janko Dietzsch, Matthias Zschunke and Kay Nieselt <i>R inside - let R drive your bioinformatic application</i></p>

Friday, May 21

useR! World Sessions

Friday 21 10:50-12:40	Kaleidoscope 2 (Chair: Brian D. Ripley, Room: HS1) Andy Liaw <i>An Adventure in randomForest: A Set of Machine Learning Tools</i> Ray Brownrigg <i>Using R for Statistical Seismology</i> Jeff Coombs <i>R and S-PLUS: Similar but different?</i> Matthew Pocernich, Eric Gilleland and Doug Nychka <i>R at NCAR</i> Sébastien Ollier, Anne-Béatrice Dufour and Jean Thioulouse and Daniel Chessel <i>Taking into account spatial dependence in multivariate analysis</i>
Friday 21 15:15-16:30	Interfaces (Chair: Martin Theus, Room: HS1) Martin Theus and Markus Helbig <i>JGR: a unified interface to R</i> Eric Lecoutre <i>R2HTML package: formatting HTML output on the fly or by using a template scheme</i> Richard Waterman and Thomas Hurley <i>A stateful R web-interface, leveraging XML and XSLT</i>
Friday 21 15:15-16:30	Data Analysis (Chair: Uwe Ligges, Room: HS5) Christian Röver, Nils Raabe, Karsten Luebke and Uwe Ligges <i>klaR: A Package Including Various Classification Tools</i> Shusaku Tsumoto and Shoji Hirano <i>Rough Set based Rule Induction Package for R</i> Jorge Cadima, Jorge Orestes Cerdeira, Antonio Pedro Duarte Silva and Manuel Minhoto <i>The subselect package - Selecting variable subsets in an exploratory data analysis</i>

useR! Island Sessions

Friday 21 16:45-18:15	Applications (Chair: Marc Schwartz, Room: Prechtl-Saal, Main Building) Eryk Witold Wolski, Thomas Kreitler, Johan Gobom and Knut Reinert <i>Use R for Peptide Mass Fingerprinting</i> M.Reza Keyhani, Hossain Farahini, Ismaeel Ebrahimi and Navid Taheri <i>Performance of Spinal Supporting Muscles under Different Angles of Spinal Flexion for 4 Combination of Flexion/Extension and Sitting / Standing Positions</i> Clara Cordeiro and M. Manuela Neves <i>Using R for predicting air traffic</i> András Löw <i>Simulating Society in R</i> Maja Pohar and Gaj Vidmar <i>Replacing Cluttered Scatterplots With Augmented Convex Hull Plots</i> Christian Gold <i>Creating graphs of meta-analyses with R</i>
Friday 21 16:45-18:15	Bioinformatics (Chair: Axel Benner, Room: Prechtl-Saal, Main Building) Margherita Mutarelli, Luigi Cicatiello, Alessandro Weisz and Angelo Facchiano <i>Comparative analysis of the oestrogen-responsive gene expression profile of breast cancer cells with three different microarray platforms</i> Andreas Buneß, Wolfgang Huber, Holger Sültmann and Annemarie Poustka <i>arrayMagic: two-colour DNA array quality control and preprocessing</i> David Casado and Ramón Díaz-Uriarte <i>Molecular signatures from gene expression data: algorithm development using R</i> Steffen Durinck, Joke Allemeersch, Yves Moreau and Bart De Moor <i>RMAGEML: integrating MAGE-ML format microarray data and Bioconductor</i> David Henderson <i>PRSG_Nirvana, A parallel tool to assess differential gene expression</i>

<p>Friday 21 16:45-18:15</p>	<p>Connectivity (Chair: Simon Urbanek, Room: Prechtl-Saal, Main Building)</p> <p>Thomas Baier and Erich Neuwirth <i>Embedding R in Windows applications, and executing R remotely</i></p> <p>Edward Debevec and Eric Rexstad <i>Creating Online R Functions with deliveR</i></p> <p>John Paolillo <i>R-parse: A Natural Language Processing Application of R</i></p> <p>Mark Demesmaeker <i>Deployment of validated statistical algorithms within an end-user's application</i></p>
<p>Friday 21 16:45-18:15</p>	<p>Data Analysis (Chair: Martin Theus, Room: Prechtl-Saal, Main Building)</p> <p>Pablo Emilio Verde, Christian Ohmann, Christof Kugler and Geraedts Max <i>Mining some medical information in a fee database</i></p> <p>Shusaku Tsumoto and Shoji Hirano <i>Application of R to Data Mining in Hospital Information Systems</i></p> <p>Yutaka Hamaoka <i>Why R Project Succeeded? - A Comparison of Open Source Software Projects Using R</i></p>
<p>Friday 21 16:45-18:15</p>	<p>Econometrics (Chair: Roger Koenker, Room: Prechtl-Saal, Main Building)</p> <p>Arne Henningsen <i>Microeconomic Analysis with R</i></p> <p>Christian Kleiber <i>Distributions of finite and infinite quadratic forms in R</i></p> <p>Wai Kwong Cheang <i>Calculating the autocovariances of fractional ARIMA model</i></p> <p>Sven Knoth <i>Statistical Process Control and R: A cautious beginning</i></p> <p>Hiroyuki Kawakatsu <i>metrics: Towards a package for doing econometrics in R</i></p>
<p>Friday 21 16:45-18:15</p>	<p>Software (Chair: Friedrich Leisch, Room: Prechtl-Saal, Main Building)</p> <p>Dirk Eddebuettel, Douglas Bates and Albrecht Gebhardt <i>Using R on Debian: Past, Present, and Future</i></p> <p>Dirk Eddebuettel <i>Quantian: A single-system image scientific cluster computing environment</i></p> <p>Duncan Murdoch <i>Orientlib: Using S Version 4 Objects</i></p> <p>Andrew Thomas <i>Using meta-programming to make BRugs from BUGS and R</i></p> <p>Thomas König and Klaus Jünemann and Matthias Burger <i>RUnit-A Software Development And Test Package</i></p> <p>Xavier Font Aragonés <i>Computational cost and time threads</i></p>
<p>Friday 21 16:45-18:15</p>	<p>Spatial Statistics (Chair: Roger Bivand, Room: Prechtl-Saal, Main Building)</p> <p>Roger Bivand, Edzer Pebesma and Barry Rowlingson <i>Generic functions for spatial data</i></p> <p>Albrecht Gebhardt and Claudia Gebhardt <i>Bayesian Methods in Geostatistics: Using prior knowledge about trend</i></p> <p>Nadine Henkenjohann <i>spatialreg - A package to fit spatial regression models with isotropic and anisotropic covariance functions</i></p> <p>Juergen Pilz and Philipp Pluch and Gunter Spoeck <i>Taking into account uncertainty in spatial covariance estimation for Bayesian prediction</i></p>

Saturday, May 22

useR! World Sessions

Saturday 22
10:50-12:40

Kaleidoscope 3 (*Chair: Roger Bivand, Room: HS1*)

Roger Koenker

Additive models for nonparametric regression: Adventures in sparse linear algebra

Thomas Petzoldt

Implementation and Simulation of Ecological Models in R: an Interactive Approach

Günter Tirlor, Pierre L'Ecuyer and Josef Leydold

RNGstreams - An R package for multiple independent streams of uniform random numbers

Ivan Mizera

LSD plots: some aspects of their implementation in R

Uwe Ligges

tuneR - Analysis of Music