

**Session Program**

6-9 Jul 2026

**useR! 2026**

***Talks***

## Tuesday 7 July

10:30

### Talks: Case studies and applications

Session | Location: <https://user2026.r-project.org/venue.html>

10:30–10:50 **Analyzing Sports Data with R**

Speaker  
Max Marchi

10:50–11:10

**Workforce Digital Twins: Individual-Level Stochastic Simulation for Strategic Workforce Planning in R**

Speaker  
Dr Nicolas Flores Castillo

11:10–11:30 **samplyr: A Tidy Grammar for Survey Sampling Design in R**

Speaker  
Dr Ahmadou Dicko

11:30–11:50 **Evaluating Disclosure Risk in Synthetic Data with the R Package riskutility**

Speaker  
Oscar Thees

11:50

10:30

### Talks: Data visualization

Session | Location: <https://user2026.r-project.org/venue.html>

10:30–10:50 **Create your own dashboard with EurostatRTool**

Speaker  
Antonio Grosso

10:50–11:10 **Writing Interactive Applications with Base R using getGraphicsEvent()**

Speaker  
Wolfgang Viechtbauer

11:10–11:30 **Reusing 'ggplot2' code: how to design better plot helper functions**

Speaker  
Cynthia Huang

11:30–11:50 **Interactive Graphics for Analyses, Documents and Dashboards**

Speaker  
Simon Urbanek

11:50

10:30

### Talks: Econometrics and financial modeling

Session | Location: <https://user2026.r-project.org/venue.html>

10:30–10:50 **When One Hundredth of a Second Matters: Bayesian Counterfactual Modeling in R**

Speaker  
Kristian Vepsäläinen

10:50–11:10 **mlr3forecast: Extending mlr3 to time series forecasting**

	<p><b>Speaker</b> Maximilian Mücke</p>
11:50	<p>11:10–11:30 <b>Fast and Efficient Bayesian Analysis of Structural Vector Autoregressions Using the R Package bsvars</b></p> <p><b>Speaker</b> Tomasz Woźniak</p>
10:30	<p><b>Talks: Package development</b> Session   Location: <a href="https://user2026.r-project.org/venue.html">https://user2026.r-project.org/venue.html</a></p>
	<p>10:30–10:50 <b>R We There Yet? Surviving the Transition to Package Maturity</b></p> <p><b>Speaker</b> Edoardo Mancini</p>
	<p>10:50–11:10 <b>Maintaining a package on CRAN</b></p> <p><b>Speaker</b> Lluís Revilla Sancho</p>
	<p>11:10–11:30 <b>UnitMix in Production: Multivariate Gaussian Mixtures for Robust Detection of Scale Errors and Outliers</b></p> <p><b>Speaker</b> Cristina Faricelli</p>
11:50	<p>11:30–11:50 <b>What If We Break Base R? Bug Propagation in CRAN</b></p> <p><b>Speaker</b> Szymon Maksymiuk</p>
13:00	<p><b>Talks: R in production environments</b> Session   Location: <a href="https://user2026.r-project.org/venue.html">https://user2026.r-project.org/venue.html</a></p>
	<p>13:00–13:20 <b>Fuzz Testing R-Based Research Software for Robustness</b></p> <p><b>Speaker</b> Marco Colombo</p>
	<p>13:20–13:40 <b>Beyond Code Coverage: Mutation Testing in R with MutatoR</b></p> <p><b>Speaker</b> Dr Pierre Donat-Bouillud</p>
	<p>13:40–14:00 <b>5 years of internal software validation in Roche</b></p> <p><b>Speakers</b> Szymon Maksymiuk, Lorenzo Braschi</p>
14:20	<p>14:00–14:20 <b>Quality Control Risk Model for R Package Validation</b></p> <p><b>Speaker</b> Magnus Mengelbier</p>

## Wednesday 8 July

10:30

### Talks: Building tools for reproducible research

Session | Location: <https://user2026.r-project.org/venue.html>

10:30–10:50 **Practical Strategies for R-Based Research in Secure Data Environments**

Speaker  
Aleksi Lahtinen

10:50–11:10 **Critical Paths in R: Turning Data Scientists into Effective Project Managers**

Speaker  
Gary Sutton

11:10–11:30

**Managing Analytic Multiplicity in Epidemiology: Reproducible Multiverse and Vibration of Effects Analyses in R**

Speaker  
Alyssa Columbus

11:30–11:50 **Towards Reproducible Research using NHANES Data**

Speaker  
Deepayan Sarkar

11:50

10:30

### Talks: Environmental sciences

Session | Location: <https://user2026.r-project.org/venue.html>

10:30–10:50 **Modernizing R's web-mapping capabilities**

Speaker  
Tim Appelhans

10:50–11:10 **Mapping Climate Stories with {sf}**

Speaker  
Renata Hirota

11:10–11:30 **Areal interpolation methods**

Speaker  
Edzer Pebesma

11:30–11:50 **Is here still where it was? Changes in terrestrial reference frames in R spatial packages**

Speaker  
Roger Bivand

11:50

10:30

### Talks: Statistical models and methods

Session | Location: <https://user2026.r-project.org/venue.html>

10:30–10:50

**stats::free1way(): Semiparametrically Efficient Population and Permutation Inference in Distribution-free Stratified K-sample Oneway Layouts**

**Speaker**  
Kurt Hornik

10:50–11:10

### An Enhanced Projection Pursuit Tree Classifier with Visual Methods for Assessing Algorithmic Improvements

**Speaker**  
Natalia da Silva

11:10–11:30

### R Package VIM: Flexible Model Adaptive Imputation with Vimpute

**Speaker**  
Eileen Vatheuer

11:30–11:50

### A Connected Set of R packages for Regularized Regression based on Ridge and S-Type Estimators

**Speakers**  
Dr Filiz Karadag, Dr Olgun Aydin

11:50

10:30

## Talks: Web applications (Shiny, dashboards)

Session | Location: <https://user2026.r-project.org/venue.html>

10:30–10:50

### {teal}: A production-ready modular framework for reproducible data exploration on clinical trials

**Speaker**  
Dr Lluís Revilla Sancho

10:50–11:10

### Building stateful web apps with Rserve

**Speaker**  
Tom Elliott

11:10–11:30

### Plumbing Your Way to React: Using Plumber APIs to Evolve Shiny Systems

**Speaker**  
Deepansh Khurana

11:30–11:50

### CRDTs for R: Conflict-Free Data Structures for Real-Time Collaboration

**Speaker**  
Charlie Gao

11:50

13:00

## Talks: Data mining and analysis

Session | Location: <https://user2026.r-project.org/venue.html>

13:00–13:20

### An Investigation of the R Package Ecosystem: Insights from the crawlR Project

**Speaker**  
Florian Sihler

13:20–13:40

### The (aggregated) history of every CRAN package ever

**Speaker**  
Mark Padgham

13:40–14:00

### Measuring the Invisible: Investing in R's Core Infrastructure

**Speaker**  
Laia Domenech-Burin

14:20

13:00

**Talks: Efficient programming**Session | Location: <https://user2026.r-project.org/venue.html>**13:00-13:20** **Growable Vectors and In-Place Row Operations: A data.table Perspective****Speaker**

Benjamin Schwendinger

**13:20-13:40** **cloud::servers[workload == R][order(cost\_efficiency)][1, eval(task)]****Speaker**

Gergely Daroczi

**13:40-14:00** **Explosive debugging with the 'boomer' package****Speaker**

Antoine Fabri

**14:00-14:20** **Futurize - Tearing Down Parallelization Barriers in R with Transpilers****Speaker**

Henrik Bengtsson

14:20

## Thursday 9 July

10:30

### Talks: Bioinformatics and biostatistics

Session | Location: <https://user2026.r-project.org/venue.html>

10:30-10:50 **Travel Paths: Bridging the usability gap in open source animal movement algorithms**

Speaker  
Mx Katrina Brock

10:50-11:10 **The TDAverse: Modular, interoperable, and extensible topological data analysis in R**

Speaker  
Aymeric Stamm

11:10-11:30 **SerolyzeR - an R package for automated analysis of serological data**

Speakers  
Jakub Grzywaczewski, Dr Nuno Sepúlveda

11:30-11:50

**The MACverse: A unified collection of packages for microstructure-augmented connectivity analysis in R**

Speaker  
Aymeric Stamm

11:50

10:30

### Talks: Emerging trends in R

Session | Location: <https://user2026.r-project.org/venue.html>

10:30-10:50 **Moving towards R package 'Matrix' version 2.0-0**

Speaker  
Mikael Jagan

10:50-11:10 **Juggling with S7**

Speaker  
Ella Kaye

11:10-11:30 **Metamorphoses: Transforming CVXR to S7 with an AI Agent**

Speaker  
Balasubramanian Narasimhan

11:30-11:50 **Semantic vectors for safer statistics**

Speaker  
Mitchell O'Hara-Wild

11:50

10:30

### Talks: Machine learning, deep learning, and AI

Session | Location: <https://user2026.r-project.org/venue.html>

10:30-10:50 **Good Programming Practices, Design and Agile in the Era of AI-Generated Code**

Speaker  
Maciej Nasiński

10:50–11:10

**Visual Explanations of XAI Explainers, to Gain Insight into Predictions from High-Dimensional Models****Speaker**

Janith Wanniarachchi

11:10–11:30

**On Balancing Numeric and Categorical Variables for Clustering****Speaker**

Gero Szepannek

11:30–11:50

**Advanced Machine Learning, Visualization, and Agentic AI using rtemis****Speaker**

Efsthios Gennatas

11:50

10:30

**Talks: Teaching R / R in teaching****Session** | **Location:** <https://user2026.r-project.org/venue.html>

10:30–10:50

**Teaching Reproducibility by Design: An End-to-End R Workflow Using Quarto, Open Data, and Package Development****Speaker**

Christian Martinez

10:50–11:10

**No code, no limits: blockr, a visual AI driven data pipelines builder for R.****Speaker**

David Granjon

11:30–11:50

**Playful Teaching of Simulation Models: From Monolithic Shiny Apps to Quarto Dashboards and webR****Speaker**

Thomas Petzoldt

11:50