



useR! 2021

The R Conference

5-9 July 2021 | Online



Conference Agenda

Overview and details of the sessions of this conference. Please select a date or location to show only sessions at that day or location. Please select a single session for detailed view (with abstracts and downloads if available).

Hide Presentations
 List View
 Authors

Session Overview

Date: Sunday, 04/July/2021

- 10:15pm - 11:15pm** **Welcome and Navigation Guide (PDT)**
 Location: [The Lounge #announcements](#)
 Chair: **Rocio Joo**
 Chair: **Heather Turner**
 Zoom Host: **Marcela Alfaro Cordoba**
 Zoom Host (R): **Andrea Sánchez-Tapia**
 Chair: **Yanina Noemi Bellini Saibene**
 A warm welcome for our first timezone, along with a quick guide on how to navigate the conference
- 11:15pm - 11:59pm** **My first UseR! (PDT)**
 Location: [The Lounge #new_to_UseR!](#)
 Chair: **Batool Almarzouq**
 Zoom Host: **Andrea Sánchez-Tapia**
 Zoom Host (R): **Marcela Alfaro Cordoba**
 A session for newcomers to useR!
- 11:15pm - 12:15am**
- Social Events
My first UseR! (PDT)
 Batool Almarzouq

Date: Monday, 05/July/2021

- 7:15am - 8:15am** **Welcome and Navigation Guide (AWST)**
 Location: [The Lounge #announcements](#)
 Chair: **Dorothea Hug Peter**
 Chair: **Matt Bannert**
 Zoom Host: **Saranjeet Kaur Bhogal**
 Zoom Host (R): **Faith Musili**
 Chair: **Heather Turner**
 A warm welcome for our second timezone, along with a quick guide on how to navigate the conference
- 1:15pm - 2:15pm** **Welcome and Navigation Guide (CEST)**
 Location: [The Lounge #announcements](#)
 Chair: **Rocio Joo**
 Chair: **Yanina Noemi Bellini Saibene**
 Zoom Host: **Faith Musili**
 Zoom Host (R): **Saranjeet Kaur Bhogal**
 Zoom Host (R2): **Heather Turner**
 Chair: **Matt Bannert**
 A warm welcome for our third timezone, along with a quick guide on how to navigate the conference
- 2:15pm - 3:15pm** **My first UseR! (CEST)**
 Location: [The Lounge #new_to_UseR!](#)
 Chair: **Batool Almarzouq**
 Zoom Host: **Erin West**
 Zoom Host (R): **Natalia Soledad Morandeira**
 A session for newcomers to useR!
- 3:30pm - 4:30pm** **Keynote: R Spatial**
 Location: [The Lounge #key_pebesma](#)
 Chair: **Peter Macharia**
 Zoom Host: **Linda Jazmín Cabrera Orellana**
 Zoom Host (R): **s gwynn sturdevant**
- Keynote Talk
Edzer Pebesma
- 4:30pm - 4:45pm** **Break**
 Location: [The Lounge #lobby](#)
- 4:45pm - 6:15pm**
- 1A - Community and Outreach 1**
 Location: [The Lounge #talk_community_outreach_1](#)
 Chair: **Erin LeDell**

1B - R packages 1
 Location: [The Lounge #talk_packages_1](#)
 Chair: **Luis Darcy Verde Arregoitia**

	<p>Zoom Host: s gwynn sturdevant Zoom Host (R): Linda Jazmin Cabrera Orellana Session Sponsor: ixpantia Session Slide</p> <p>4:45pm - 5:05pm <i>Talk-Live</i> Regular Talk</p> <p>R for Non-Programmers: Creating Paradigm Shifts in Reporting for Community-Facing Organizations Using R Lisa Kulka, Sulagna Patra, Mohammad Haque</p>	<p>Zoom Host: Juan Pablo Narváez-Gómez Zoom Host (R): CHIBUOKEM BEN UBAH Session Sponsor: R Studio Session Slide</p> <p>4:45pm - 5:05pm <i>Talk-Video</i> Regular Talk</p> <p>RcppDeepState, a simple way to fuzz test R packages. Akhila Chowdary Kolla, Dr. Toby Dylan Hocking, Dr. Alex groce</p>
	<p>5:05pm - 5:25pm <i>Talk-Live</i> Regular Talk</p> <p>rOpenSci's Model for Managing a Federated Open Source Software Community Stefanie Butland, Lou Woodley, Karthik Ram</p>	<p>5:05pm - 5:25pm <i>Talk-Live</i> Regular Talk</p> <p>R in Regulated Industries: Assessing Risk with {riskmetric} Doug Kelkhoff, Yilong, and many more contributors at the R Validation Hub Zhang</p>
	<p>5:25pm - 5:45pm <i>Talk-Video</i> Regular Talk</p> <p>R Developer's Guide Saranjeet Kaur Bhogal, Heather Turner, Michael Lawrence</p>	<p>5:25pm - 5:45pm <i>Talk-Video</i> Regular Talk</p> <p>{poorman} - A dependency free recreation of {dplyr} Nathan Wayne Eastwood</p>
	<p>5:45pm - 6:05pm <i>Talk-Video</i> Regular Talk</p> <p>Packages submission and reviews; how does it work? Lluís Revilla Sancho</p>	
6:15pm	Break	
-	Location: The Lounge #lobby	
6:30pm		
6:30pm	<p>2A - Data Management Location: The Lounge #talk_data_management Chair: Christopher Maronga Zoom Host: Linda Jazmin Cabrera Orellana Zoom Host (R): s gwynn sturdevant Session Sponsor: cynkra Session Slide</p>	<p>2B - Shiny Location: The Lounge #talk_shiny Chair: Mohamed El Fodil Ihaddaden Zoom Host: CHIBUOKEM BEN UBAH Zoom Host (R): Juan Pablo Narváez-Gómez Session Sponsor: Open Analytics Session Slide</p>
8:00pm	<p>6:30pm - 6:50pm <i>Talk-Video</i> Regular Talk</p> <p>Solving Big Data Problems with Apache Arrow Neal Richardson</p>	<p>6:30pm - 6:50pm <i>Talk-Video</i> Regular Talk</p> <p>All-in-one smartphone-based system for quantitative analysis of point-of-care diagnostics Weronika Schary, Filip Paskali, Matthias Kohl</p>
	<p>6:50pm - 7:10pm <i>Talk-Live</i> Regular Talk</p> <p>respectables and synthetic.cdisc.data: A framework for creating relational data with application Gabriel Becker, Adrian Waddell</p>	<p>6:50pm - 7:10pm <i>Talk-Live</i> Regular Talk</p> <p>Unit Testing Shiny App Reactivity Jonathan Sidi</p>
	<p>7:10pm - 7:30pm <i>Talk-Video</i> Regular Talk</p> <p>Going Big and Fast - {kafkaesque} for Kafka Access Peter Meißner</p>	<p>7:10pm - 7:30pm <i>Talk-Video</i> Regular Talk</p> <p>ShinyQuickStarter: Build Shiny apps interactively with Drag & Drop Leon Binder</p>
	<p>7:30pm - 7:50pm <i>Talk-Video</i> Regular Talk</p> <p>Scaling R for Enterprise Data Mark Hornick</p>	<p>7:30pm - 7:50pm <i>sponsored-video</i> Sponsored Talk</p> <p>ShinyProxy. The Good News Show. Tobia De Koninck</p>
8:00pm	Break	
-	Location: The Lounge #lobby	
8:30pm		
8:30pm	<p>Keynote: Tools and technologies for supporting algorithm fairness and inclusion Location: The Lounge #key_resp_prog Chair: Vebashini Naidoo Chair: Shelmith Kariuki Zoom Host: Juan Pablo Narváez-Gómez Zoom Host (R): CHIBUOKEM BEN UBAH Session Slide</p>	
10:00pm	<p>Keynote Talk Achim Zeileis, Dorothy Gordon, Kristian Lum, Jonathan Godfrey</p>	
10:00pm	Break	
-	Location: The Lounge #lobby	
10:30pm		
10:30pm	<p>Incubator: Five principles to grow up your R community Location: The Lounge #incubator_r_community Chair: Joselyn Chávez Chair: Leonardo Collado Torres</p>	
11:30pm		

Zoom Host: [s gwynn sturdevant](#)
 Zoom Host (R): [Linda Jazmín Cabrera Orellana](#)

Incubator
[Joselyn C. Chávez-Fuentes](#), [Erick Cuevas-Fernández](#), [Alejandro Reyes](#), [Leonardo Collado-Torres](#)

11:30pm

MiR MeetingLocation: [The Lounge #MiR_minorities_in_R](#)Chair: [Audris Campbell](#)Zoom Host: [CHIBUOKEM BEN UBAH](#)Zoom Host (R): [Juan Pablo Narváez-Gómez](#)**RechaRge 1**Location: [The Lounge #announcements](#)Zoom Host: [Marcela Alfaro Cordoba](#)

Yoga Intro + Breathing exercises

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11:59pm

Date: Tuesday, 06/July/2021

12:00am

RechaRge 1Chair: [Marcela Alfaro Cordoba](#)

Yoga Intro + Breathing exercises

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12:30am

BreakLocation: [The Lounge #lobby](#)

-

12:45am

Elevator Pitches 1Location: [The Lounge #elevator_pitches](#)

-

12:45am

-

2:15am

Elevator Pitch

Hetu-package: Validating and Extracting Information from Finnish National Identification Numbers[Pyyri Kantanen](#), [Måns Magnusson](#), [Jussi Paananen](#), [Leo Lahti](#)

Elevator Pitch

Visualising variable importance and variable interaction effects in machine learning models.[Alan Inglis](#), [Andrew Parnell](#), [Catherine Hurley](#)

Elevator Pitch

Obtaining reproducible reports on satellite hotspot data during a wildfire disaster[Natalia Soledad Morandeira](#)

Elevator Pitch

Modeling spatio-temporal point processes with nphawkes package[Peter Boyd](#), [Dr. James Molyneux](#)

Elevator Pitch

Use Case: Functional Programming and Parallelization in Spatial Point Pattern Analysis[Clara Chua](#), [Tin Seong Kam](#)

Elevator Pitch

Predicting the COVID-19 Pandemic Impact on Clinical Trial Recruitment at GSK[Valeriia Sherina](#), [Nicky Best](#), [Graeme Archer](#), [Jack Euesden](#), [Dave Lunn](#), [Inna Perevozskaya](#), [Doug Thompson](#), [Magda Zwierzyna](#)

Elevator Pitch

The Grammar of Experimental Design[Emi Tanaka](#)

Elevator Pitch

rspatialdata: a collection of data sources and tutorials on downloading and visualising spatial data using R[Varsha Ujjini Vijay Kumar](#), [Dilinie Seimon](#), [Paula Moraga](#)

Elevator Pitch

Moved to Session 2**Test Test**

Elevator Pitch

Teaching Advanced Data Science in R: Successes and Failures[Lisa Lendway](#)

Elevator Pitch

rRbMs, r tools for Reconstructing bin Metabolisms.[Mirna Vázquez Rosas Landa](#), [Valerie de Anda Torres](#), [Sahil Shan](#), [Brett Baker](#)

Elevator Pitch

ResidualRWA: Detecting relevant variable using relative weight analysis with residualization**Maikol Solís, Carlos Pasquier**

Elevator Pitch

serosurvey R package: Serological Survey Analysis For Prevalence Estimation Under Misclassification**Andree Valle-Campos**

Elevator Pitch

httrex: Help Debugging HTTP API Clients**Greg Daniel Freedman Ellis**

Elevator Pitch

Reading, Combining, and Pre-Filtering Files with R and AWK**David Shilane, Mayur Bansal, Chung Woo Lee**

Elevator Pitch

DATA PIPELINE: IMPROVING MANAGEMENT OF FINANCIAL CONTRIBUTIONS TO THE FIGHT AGAINST POVERTY IN COSTA RICA**Roberto Delgado Castro**

Elevator Pitch

mctq: An R Package for the Munich ChronoType Questionnaire**Daniel Vartanian, Ana Amélia Benedito-Silva, Mario Pedrazzoli**

Elevator Pitch

{flowDiv} workflow: reproducible cytometric diversity estimates**María Victoria Quiroga, Bruno M. S. Wanderley, André M. Amado, Fernando Unrein**

Elevator Pitch

From Sheets to Success: Reliable, Reproducible, yet Flexible Production Pipelines**Katrina Brock**

Elevator Pitch

Efficient multi-wave sampling with the R package optimall**Jasper B. Yang, Bryan E. Shepherd, Thomas Lumley, Pamela A. Shaw**

Elevator Pitch

Open the Machine Learning Black-Box with modelStudio & Arena**Hubert Baniecki, Piotr Piątyśzek**

Elevator Pitch

Classifying Student's Learning Pattern using R Sequence Analysis Packages: The Impact of Procrastination on Performance**Teck Kiang Tan**

Elevator Pitch

Outlier redemption**Violeta Roizman**

Elevator Pitch

The Canyon of Success: Scaling Best Practices in R with Internal R packages**Malcolm Barrett**

Elevator Pitch

Modeling tumor evolutionary dynamics with SITH**Phillip Nicol, Amir Asiaee**

Talk-Video

Elevator Pitch

A Glimpse into the Reproducibility of Scientific Papers published in Movement Ecology: How are we doing ?**Jenicca Poongavanan, Rocio Joo Arakawa, Mathieu Basille**

Talk-Video

Elevator Pitch

Forecasting under COVID: when simple works - and when it doesn't**Maryam Shobeirinejad, Steph Stammel**

Elevator Pitch

gatpkg: Developing a geographic aggregation tool in R for non-programmers
Abigail Stamm

Elevator Pitch

tidyndr: An R package for analysis of the Nigeria HIV National Data Repository
Stephen Taiye Balogun, Scholastica Olanrewaju, Oluwaseun Okunuga, Temitope Kolade, Geraldine Chizoba Abone, Fati Murtala-Ibrahim, Helen Omuh

Elevator Pitch

Do you see what I see? Introducing microshades: An R package for improving color accessibility and organization of complex data
Lisa Karstens, Erin Dahl, Emory Neer

2:15am

mixR!

Music, networking channel and raffles. To end the day in a relaxing way

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3:15am

CreationLab

Chair: **Marcela Alfaro Cordoba**

Draw cartoons and tell stories

6:30am

-

7:30am

Keynote: Can we do this in R? - Answering questions about air quality one code at a time

Location: **The Lounge #key_kushwaha**

Chair: **Adithi R. Upadhya**

Zoom Host: **Rachel Heyard**

Zoom Host (R): **Nasrin Fathollahzadeh Attar**

[Session Slides](#)

-

8:30am

Keynote Talk

Meenakshi Kushwaha

8:30am

Break

Location: **The Lounge #lobby**

-

8:45am

8:45am

3A - Machine Learning and Data Management

Location: **The Lounge #talk_ml_dm**

Chair: **Young-suk Lee**

Zoom Host: **Nasrin Fathollahzadeh Attar**

Zoom Host (R): **Rachel Heyard**

Zoom Host (R2): **Faith Musili**

Session Sponsor: MemVerge

[Session Slides](#)

10:15am

8:45am - 9:05am

Talk-Live

Regular Talk

mlr3automl - Automated Machine Learning in R

Alexander Bernd Hanf

9:05am - 9:25am

Talk-Video

Regular Talk

Triplot: model agnostic measures and visualisations for variable importance in predictive models that take into account the hierarchical correlation structure

Katarzyna Pękala, Katarzyna Woźnica, Przemysław Biecek

9:25am - 9:45am

Talk-Video

Regular Talk

Getting sprung in R: Introduction to the rsetse package for embedding feature-rich networks

Jonathan Bourne

9:45am - 10:05am

Talk-Video

Regular Talk

An R package for the implementation of Efficiency Analysis Trees and the estimation of technical efficiency

Miriam Esteve, Victor J. España, Juan Aparicio, Xavier Barber

10:15am

RechaRge 2

Chair: **Marcela Alfaro Cordoba**

Zoom Host: **Rachel Heyard**

Zoom Host (R): **Maryam Alizadeh**

Zoom Host (R2): **Nasrin Fathollahzadeh Attar**

Yoga for Calm + Meditation

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11:15am

4A - Trends, Markets and Models

Location: **The Lounge**

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11:15am

4B - Data viz and Spatial Applications

Location: **The Lounge #talk_dataviz_spatial**

3B - Spatial Analysis

Location: **The Lounge #talk_spatial_analysis**

Chair: **Inger Fabris-Rotelli**

Zoom Host: **Tuli Amutenya**

Zoom Host (R): **Rachel Heyard**

Zoom Host (R2): **Faith Musili**

[Session Slides](#)

8:45am - 9:05am

Talk-Video

Regular Talk

Tidy Geospatial Networks in R

Lucas van der Meer, Lorena Abad, Andrea Gilardi, Robin Lovelace

9:05am - 9:25am

Talk-Live

Regular Talk

slopes: a package for calculated slopes of roads, rivers and other linear (simple) features

Robin Lovelace, Rosa Félix

9:25am - 9:45am

Talk-Live

Regular Talk

mapsf, a New Package for Thematic Mapping

Timothée Giraud

9:45am - 10:05am

Talk-Video

Regular Talk

osmextract: An R package to download, convert, and import large OpenStreetMap datasets

Andrea Gilardi, Robin Lovelace

3C - R Packages 2

Location: **The Lounge #talk_packages_2**

Chair: **Maëlle Salmon**

Zoom Host: **Maryam Alizadeh**

Zoom Host (R): **Rachel Heyard**

Zoom Host (R2): **Faith Musili**

[Session Slide](#)

8:45am - 9:05am

Talk-Video

Regular Talk

autotest: Automatic testing of R packages

Mark Padgham

9:05am - 9:25am

Talk-Video

Regular Talk

A fresh look at unit testing with tinytest

Mark van der Loo

9:25am - 9:45am

Talk-Live

Regular Talk

{fusen}: Create a package from Rmd files

Sébastien Rochette

RLadies Meeting

Location: **The Lounge #R-Ladies**

Chair: **Sara Mortara**

Zoom Host: **Tuli Amutenya**

Zoom Host (R): **Faith Musili**

12:45pm

[#talk_trends_markets_models](#)

Chair: **Mouna Belaid**
 Zoom Host: **Faith Musili**
 Zoom Host (R): **Maryam Alizadeh**
[Session Slide](#)

11:15am - 11:35am

Talk-Live
 Regular Talk

Let Me Google That for You – Measuring global trends using Google Trends
Harald Pühr, Jakob Müllner

11:35am - 11:55am

Talk-Live
 Regular Talk

Computing Disposition Effect on Financial Market Data
Lorenzo Mazzucchelli, Marco Zanotti

11:55am - 12:15pm

Talk-Live
 Regular Talk

The R Package diseq: Estimation Methods for Markets in Equilibrium and Disequilibrium
Pantelis Karapanagiotis

Chair: **Natalia Soledad Morandeira**
 Zoom Host: **Rachel Heyard**
 Zoom Host (R): **Tuli Amutenya**
[Session Slide](#)

11:15am - 11:35am

Talk-Live
 Regular Talk

Visual Diagnostics for Constrained Optimisation with Application to Guided Tours
H. Sherry Zhang, Dianne Cook, Ursula Laa, Nicolas Langrené, Patricia Menéndez

11:35am - 11:55am

Talk-Video
 Regular Talk

geofi-package: Facilitating the access to key spatial datasets in Finland
Markus Kainu

11:55am - 12:15pm

Talk-Video
 Regular Talk

Virtual Environments: Using R as a Frontend for 3D Rendering of Digital Landscapes
Michael J. Mahoney, Colin M. Beier, Aidan C. Ackerman

12:45pm

Break

Location: [The Lounge #lobby](#)

-

1:00pm

1:00pm

-

2:30pm

[Elevator Pitches 2](#)

Location: [The Lounge #elevator_pitches](#)

Elevator Pitch

Make Your Computational Analysis Citable
Batool Almarzouq

Elevator Pitch

Structural connectivity in the Lower Uruguay River Forest
Adriana Rojas, Mariel Bazzalo, Natalia Morandeira

Elevator Pitch

Fitting the beta distribution for the intra-apiary dynamics study of the infestation rate with Varroa Destructor in honey bee colonies
Camila Miotti, Ana Molineri, Adriana Pacini, Emanuel Orellano, Marcelo Signorini, Agostina Giacobino

Elevator Pitch

C50 Classification of young Moroccan men and women not in employment, education or training (NEET).
Salima MANSOURI, Hafsa EL HAFYANI, Ichark LAFRAM

Elevator Pitch

Decision support using R and DataOps at a European Union bank regulator
Jonas Bergstrom, Nicolas Pochet

Elevator Pitch

fipp : a bridge between domain knowledge and model specification in Dirichlet Process Mixtures and Mixture of Finite Mixtures
Jan Greve, Bettina Grün, Gertraud Malsiner-Walli, Sylvia Frühwirth-Schnatter

Elevator Pitch

An integrated teaching environment for R with {learnitdown}
Philippe Grosjean, Gyuiliann Engels

Elevator Pitch

Visualization of the one-way flexible ANOVA tests using with {doexplot}
Mustafa Cavus

Elevator Pitch

TrackJR: a new R-package using Julia language for tracking tiny insects
Gerardo de la vega, Federico Triñanes, Andres Gonzalez Ritzel

Elevator Pitch

shiny.fluent and shiny.react: Build Beautiful Shiny Apps Using Microsoft's Fluent UI

Marek Rogala

Elevator Pitch

Conducting Effective User Tests for Shiny Dashboards

Maria Grycuk

Elevator Pitch

NNcompare: An R package supporting the peer programming process in clinical studies

Mette Bendtsen, Steffen Falgreen Larsen, Frederik Vandvig Heinen, Claus Dethlefsen

Elevator Pitch

The evolution of the dependencies of CRAN packages

Clement Lee

Elevator Pitch

Bootstrapping Multilevel Models in R using Imeresampler

Adam Loy

Elevator Pitch

RCode, a new IDE for R

Nicolas Baradel, William Jouot

Elevator Pitch

R Package Validation and {valtools}

Ellis Hughes

Elevator Pitch

NetCoupler: Inferring causal pathways between high-dimensional metabolomics data and external factors

Luke W. Johnston, Clemens Wittenbecher, Fabian Eichelmann

Elevator Pitch

Continuously expanding Techguides: An open source project based on bookdown using CI/CD pipelines from GitHub Actions

Peter Schmid

Elevator Pitch

R as an environment for the functional analysis of proteins

Michał Burdukiewicz

Elevator Pitch

Statistical Workflows in R for Imaging Mass Spectrometry Data

Hoang Tran, Valeriia Sherina, Fang Xie

Elevator Pitch

Hi, Let's Talk About Data Science! - Customize Your Personal Data Science Assistant Bot.

Livia Eichenberger, Oliver Guggenbühl

Elevator Pitch

NNSampleSize: A tool for communicating, determining and documenting sample size in clinical trials

Claus Dethlefsen, Steffen Falgreen Larsen, Anders Ellern Bilgrau, Nynne Holdt-Caspersen, Maika Lindkvist Jensen

Elevator Pitch

pARI package: valid double-dipping via permutation-based All Resolutions Inference

Angela Andreella, Jelle Goeman, Livio Finos, Wouter Weeda, Jesse Hemerik

Elevator Pitch

Data Access and dynamic Visualization for Clinical Insights (DaVinci)

Matthias Trampisch, Julia Igel, Andre Haugg

Elevator Pitch

Reproducibility and dissemination in the research: a case of study of the bioaerosol dynamics

Jesús Rojo, Antonio Picornell, Jeroen Buters, Jose Oteros

Elevator Pitch

R in the aiR!

Adithi R. Upadhya, Pratyush Agrawal, Sreekanth Vakacherla, Meenakshi Kushwaha

Elevator Pitch

segmenter: A Wrapper for JAVA ChromHMM

Mahmoud Ahmed, Deok Ryong Kim

Elevator Pitch

Efficient list recursion in R with rraply

Joris Chau

Elevator Pitch

An R package to flexibly generate simulation model flow diagrams

Andreas Handel, Andrew Tredennick

Elevator Pitch

Using R Markdown to Automate COVID-19 Reporting

Farzad Islam, Michael Elten, Najmus Saqib

Elevator Pitch

Cumulative Link Mixed-effects Models (CLMMs) as a tool to model ordinal response variables and incorporate random effects

Christophe Bousquet

Elevator Pitch

High dimensional data visualization in ggplot2

Zehao Xu, Wayne Oldford

Elevator Pitch

Charting Covid with the DatawRappr-Package

Benedict Witzemberger

Elevator Pitch

Bringing AutoDiff to R packages

Michael Komodromos

Elevator Pitch

Healthier & Happier Hands: Software and Hardware Solutions for More Ergonomic Typing

John Paul Helveston

Elevator Pitch

High Dimensional Penalized Generalized Linear Mixed Models: The glmmPen R Package

Hillary M. Heiling, Naim U. Rashid, Quefeng Li, Joseph G. Ibrahim

Elevator Pitch

trackdown: collaborative writing and editing your R Markdown and Sweave documents in Google Drive

Filippo Gambarota, Claudio Zandonella Callegher, Janosch Linkersdörfer, Mathew Ling, Emily Kothe

Elevator Pitch

Multivariate functional data analysis

Manuel Oviedo-de la Fuente, Manuel Febrero-Bande

Elevator Pitch

Multivariate functional principal component analysis on high dimensional gait data

Sajal Kaur Minhas, Morgan Sangeux, Julia Polak, Michelle Carey

Elevator Pitch

Teaching an introductory programming course with R

Reto Stauffer, Joanna Chimiak-Opoka, Luis M Rodriguez-R, Achim Zeileis

Elevator Pitch

Landscape of R packages for eXplainable Artificial Intelligence

Szymon Maksymiuk, Alicja Gosiewska, Przemysław Biecek

Elevator Pitch

Reactive PK/PD: An R shiny application simplifying the PK/PD review process

Kristoffer Segerstrøm Mørk, Steffen Falgreen Larsen

Elevator Pitch

r-cubed: Guiding the overwhelmed scientist from random wrangling to Reproducible Research in R

Hannah Chatwin, Luke W. Johnston, Helene Baek Juel, Bettina Lengger, Daniel R. Witte, Malene Revsbech Christiansen, Anders Aasted Isaksen

Elevator Pitch

Validate observations stored in a DB

Edwin de Jonge

Elevator Pitch

Teaching Biology students to code smoothly with learnR and gradethis

Guyliann Engels, Philippe Grosjean

Elevator Pitch

Partial Least Squares Regression for Beta Regression Models

Frederic Bertrand, Myriam Maumy

Elevator Pitch

Simpler is Better: Lifting Interpretability-Performance Trade-off via Automated Feature Engineering

Alicja Gosiewska, Anna Kozak, Przemysław Biecek

Elevator Pitch

State of the Market - Infinite State Hidden Markov Models

Dean Markwick

Elevator Pitch

networkABC: Network Reverse Engineering with Approximate Bayesian Computation

Myriam Maumy, Frederic Bertrand

Elevator Pitch

Navigating Insurance Claim Data Through Tidymodels Universe

Jun Haur Lok, Tin Seong Kam

Elevator Pitch

tramME: Mixed-Effects Transformation Models Using Template Model Builder

Balint Tamasi, Torsten Hothorn

2:30pm

Break

Location: [The Lounge #lobby](#)

-

2:45pm

-

2:45pm

-

3:45pm

Keynote: Enseñando a enseñar sin perder a nadie en el camino - Teaching how to teach without leaving anyone behind

Location: [The Lounge #key_metadocencia](#)

Chair: **Juan Pablo Ruiz Nicolini**

Zoom Host: **Nasrin Fathollahzadeh Attar**

Zoom Host (R): **Tuli Amutenya**

Session Sponsor: [ixpantia](#) [Session Slide](#)

Keynote Talk

Paola Corrales, Elio Campitelli, Ivan Poggio

3:45pm

Break

Location: [The Lounge #lobby](#)

-

4:00pm

-

4:00pm

-

5:00pm

Incubator: The role of the R community in the RSE movement

Location: [The Lounge #incubator_rse](#)

Chair: **Matt Bannert**

Chair: **Heather Turner**

Zoom Host: **Faith Musilli**

Zoom Host (R): **Rachel Heyard**

Incubator

Heidi Seibold, Heather Turner, Matt Bannert

Panel: R User or R Developer? This is the question!

Location: [The Lounge #panel_user_developer](#)

Chair: **Francesca Vitalini**

Zoom Host: **Maryam Alizadeh**

Zoom Host (R): **Tuli Amutenya**

Panel

Francesca Vitalini, Riccardo Porreca, Stéphanie Gehring, Peter Schmid

5:00pm

mixR!

Music, networking channel and raffles. To end the day in a relaxing way

-

6:00pm

0:00pm

11:15pm

11:59pm

Tutorials - Track 2

11:15pm - 2:15am

Tutorial

Translating R to Your Language

Michael Chirico, Michael Lawrence

Date: Wednesday, 07/July/2021

12:05am

Movie: Coded Bias

The movie: "Coded Bias" will be available to watch during 24 hours, and we'll have a channel open for discussions

7:00am

Tutorials - Track 1

11:59pm

7:00am - 9:00am

Tutorial

Data visualization using ggplot2 and its extensions

Haifa Ben Messaoud, Mouna Belaid, Kaouthar Driss, Amir Souissi

9:00am - 9:15am

Breaks

Break

useR! 2021

9:15am - 11:45am

Tutorial

Additive Bayesian Networks Modeling

Gilles Kratzer, Reinhard Furrer

11:45am - 12:00pm

Breaks

Break

useR! 2021

12:00pm - 2:00pm

Tutorial

Quick high quality maps with R

Jan-Philipp Kolb

2:00pm - 2:15pm

Breaks

Break

useR! 2021

2:15pm - 4:15pm

Tutorial

Spatial Statistics for huge datasets and best practices

Reinhard Furrer, Roman Flury, Federico Blasi

4:15pm - 4:30pm

Breaks

Break

useR! 2021

4:30pm - 7:30pm

Tutorial

Contributing to R

Gabriel Becker, Martin Maechler

7:30pm - 7:45pm

Breaks

Break

useR! 2021

7:45pm - 10:15pm

Talk-Live

Tutorials - Track 2

7:00am - 10:00am

Tutorial

GET better at testing your R package!

Maëlle Salmon, Scott Chamberlain

10:00am - 10:15am

Breaks

Break

useR! 2021

10:15am - 2:15pm

Tutorial

Systematic data validation with the validate package

Mark van der Loo, Edwin de Jonge

2:15pm - 2:30pm

Breaks

Break

useR! 2021

2:30pm - 6:00pm

Tutorial

Production-grade Shiny Apps with {golem} - French

Vincent GUYADER, Cervan Girard

6:00pm - 6:15pm

Breaks

Break

useR! 2021

6:15pm - 7:15pm

Tutorial

Penguins in a Box: Interactive Data Science Tutorial with Penguins.

Maria Dermit, Susana Escobar

7:15pm - 8:00pm

Breaks

Break

useR! 2021

8:00pm - 11:00pm

Tutorial

Professional, Polished, Presentable: Making Great Slides with xaringan

Garrick Aden-Buie, Silvia Canelón

11:00pm - 11:15pm

Breaks

Break

useR! 2021

Tutorials - Track 3

7:00am - 10:00am

Talk-Live

Tutorial

Introduction to Responsible Machine Learning

Anna Kozak, Hubert Baniecki, Przemyslaw Biecek, Jakub Wisniewski

10:00am - 10:15am

Breaks

Break

useR! 2021

10:15am - 2:15pm

Tutorial

Entry level R maps from African data - French - English

Andy South, Anelda van der Walt, Ahmadou Dicko, Shelmith Kariuki, Laurie Baker

2:15pm - 2:30pm

Breaks

Break

useR! 2021

2:30pm - 5:30pm

Tutorial

How to build a package with "Rmd First" method

Sébastien Rochette, Emily Riederer

5:30pm - 5:45pm

Breaks

Break

useR! 2021

5:45pm - 8:30pm

Talk-Live

Tutorial

Bayesian modeling in R with {rstanarm} - Spanish

Fernando Antonio Zepeda Herrera

8:30pm - 8:45pm

Breaks

Break

useR! 2021

8:45pm - 11:45pm

Tutorial

Introduction to TileDB for R

Dirk Eddelbuettel, Aaron Wolen

Tutorials - Track 4

7:00am - 9:00am

Tutorial

Structure your app: introduction to Shiny modules

Jonas Hagenberg

9:00am - 10:30am

Breaks

Break

useR! 2021

10:30am - 1:30pm

Tutorial

Getting started with torch (in French)

Sigrid Keydana, Daniel Falbel

1:30pm - 1:45pm

Breaks

Break

useR! 2021

1:45pm - 2:45pm

Tutorial

Pinguinos en caja : tutorial interactivo de ciencia de datos con pinguinos - Español.

Maria Dermit, Susana Escobar

2:45pm - 3:00pm

Breaks

Break

useR! 2021

3:00pm - 6:00pm

Tutorial

Data Pipelines at scale with R and Kubernetes - Spanish

Frans van Durné

6:00pm - 6:15pm

Breaks

Break

useR! 2021

6:15pm - 9:15pm

Tutorial

Datos espaciales a lo tidy - Español

Elio Campitelli, Paola Corrales

Tutorial

Graphing multivariate categorical data: The how, what and why of mosaic plots and alluvial diagrams
Joyce Robbins, Ludmila Janda

Date: Thursday, 08/July/2021

12:30am - **Keynote: Expanding the Vocabulary of R Graphics**
 Location: [The Lounge #key_murrell](#)

1:30am
 Chair: **Joyce Robbins**
 Zoom Host: **Olgun Aydin**
 Zoom Host (R): **Jyoti Bhogal**
[Session Slides](#)

Keynote Talk
Paul Murrell

1:30am - **Break**
 Location: [The Lounge #lobby](#)

1:45am

1:45am - **5A - Teaching R and R in Teaching**
 Location: [The Lounge #talk_teaching](#)
 Chair: **Karthik Raman**
 Zoom Host: **Adrian Maga**
 Zoom Host (R): **Jyoti Bhogal**
 Session Sponsor: Appsilon [Session Slides](#)

1:45am - 2:05am
Talk-Video
 Regular Talk
Developing a datasets based R package to teach environmental data science
Allison Horst, Julien Brun

2:05am - 2:25am
Talk-Video
 Regular Talk
Using R as a Community Workbench for The Carpentries Lesson Infrastructure
Zhian N. Kamvar, François Michonneau

2:25am - 2:45am
Talk-Video
 Regular Talk
Teaching and Learning Bayesian Statistics with {bayesrules}
Mine Dogucu, Alicia A. Johnson, Miles Ott

2:45am - 3:05am
Talk-Live
 Regular Talk
Building and maintaining OpenIntro using the R ecosystem
Mine Cetinkaya-Rundel

3:15am - **Break**
 Location: [The Lounge #lobby](#)

3:30am

3:30am - **Incubator: Strategies to build a strong AsiaR Community**
 Location: [The Lounge #incubator_asian](#)
 Chair: **Janani Ravi**
 Chair: **Adithi R. Upadhy**
 Zoom Host: **Jyoti Bhogal**
 Zoom Host (R): **Olgun Aydin**

Incubator
Adithi R. Upadhy, Dr. Janani Ravi

4:30am - **aRt Gallery**
 Location: [The Lounge #announcements](#)
 Chair: **Sara Mortara**
 Chair: **Marcela Alfaro Cordoba**
 Meet some aRtists!

5:30am - **6A - Data visualisation**
 Location: [The Lounge #talk_dataviz](#)
 Chair: **Praveena Mathews**
 Zoom Host: **Olgun Aydin**
 Zoom Host (R): **Adrian Maga**
 Session Sponsor: R Studio [Session Slides](#)

5:30am - 5:50am
Talk-Video
 Regular Talk
Easy R Markdown reporting with chronicle
Philippe Heymans Smith

5B - Mathematical/Statistical Methods
 Location: [The Lounge #talk_math_stats](#)
 Chair: **Marcela Alfaro Cordoba**
 Zoom Host: **Nick Spyrison**
 Zoom Host (R): **Olgun Aydin**
[Session Slides](#)

1:45am - 2:05am
Talk-Video
 Regular Talk
maars: Tidy Inference under misspecified statistical models in R
Riccardo Fogliato, Shamindra Shrotriya, Arun Kumar Kuchibhotla

2:05am - 2:25am
Talk-Live
 Regular Talk
Mixed Integer Evolutionary Strategies with "miesmuschel"
Martin Binder

2:25am - 2:45am
Talk-Video
 Regular Talk
Here is the anomalow-down!
Sevvandi Kandanaarachchi, Rob J Hyndman

7:00am - **6B - R in Production 1**
 Location: [The Lounge #talk_r_production_1](#)
 Chair: **Emi Tanaka**
 Zoom Host: **Jyoti Bhogal**
 Zoom Host (R): **Nick Spyrison**
 Session Sponsored by: cynkra [Session Slides](#)

5:30am - 5:50am
sponsored-live
 Sponsored Talk
Big Memory for R
Jingchao Sun, Chris Kang, Austin Gutierrez

<p>5:50am - 6:10am Talk-Video Regular Talk</p>	<p>virgo: a layered interactive grammar of graphics in R Stuart Lee, Earo Wang</p>	<p>5:50am - 6:10am Talk-Live Regular Talk</p> <p>Bridging the Unproductive Valley: Building Data Products Strictly Without Magic Maximilian Held, Najko Jahn</p>	
<p>6:10am - 6:30am Talk-Live Regular Talk</p>	<p>New displays for the visualization of multivariate data in the tourr package Ursula Laa</p>	<p>6:10am - 6:30am Talk-Video Regular Talk</p> <p>Data science serverless-style with R and OpenFaaS Peter Solymos</p>	
<p>6:30am - 6:50am Talk-Live Regular Talk</p>	<p>plotVR - walk through your data Philipp Thomann</p>		
<p>7:00am -</p>	<p>Break Location: The Lounge #lobby</p>		
<p>7:15am</p>			
<p>7:15am -</p>	<p>Keynote: Research software engineers and academia Location: The Lounge #key_seibold</p>		
<p>8:15am</p>	<p>Chair: Dorothea Hug Peter Zoom Host: Adrian Maga Zoom Host (R): Nick Spyrison Session Slides</p>		
<p>8:15am -</p>	<p>Keynote Talk Heidi Seibold</p>		
<p>8:15am</p>	<p>RechaRge 3 Location: The Lounge #announcements</p>		
<p>9:15am</p>	<p>Chair: Marcela Alfaro Cordoba Yoga for the Spine + Stretching</p>		
<p>9:15am -</p>	<p>7A - Ecology and Environmental Sciences Location: The Lounge</p>	<p>7B: Statistical modeling in R Location: The Lounge #talk_stats</p>	<p>7C - Teaching, Automation and Reproducibility Location: The Lounge</p>
<p>10:45am</p>	<p>#talk_ecology_environment Chair: Ulfah Mardiah Zoom Host: Adrian Maga Zoom Host (R): Olgun Aydin Session Slide</p>	<p>Chair: Sevvandi Kandanaarachchi Zoom Host: Nick Spyrison Zoom Host (R): Olgun Aydin Session Slides</p>	<p>#talk_teaching_automation_r Chair: Earo Wang Zoom Host: Jyoti Bhogal Zoom Host (R): Olgun Aydin Session Sponsor: Roche Session Slide</p>
<p>9:15am - 9:35am Talk-Live Regular Talk</p>	<p>startR: A tool for large multi-dimensional data processing An-Chi Ho, Núria Pérez-Zanón, Nicolau Manubens, Francesco Benincasa, Pierre-Antoine Bretonnière</p>	<p>9:15am - 9:35am Talk-Video Regular Talk</p> <p>Probability Distribution Forecasts: Learning with Random Forests and Graphical Assessment Moritz N. Lang, Reto Stauffer, Achim Zeileis</p>	<p>9:15am - 9:35am Talk-Live Regular Talk</p> <p>A semi-automatic grader for R scripts Vik Gopal, Samuel Seah, Viknesh Jaya Kumar</p>
<p>9:35am - 9:55am Talk-Live Regular Talk</p>	<p>grwat: a new R package for automated separation and analysis of river hydrograph Timofey Samsonov, Ekaterina Rets, Maria Kireeva</p>	<p>9:35am - 9:55am Talk-Live Regular Talk</p> <p>spaMM: an R package to fit generalized, linear, and mixed models allowing for complex covariance structures François Rousset, Alexandre Courtiol</p>	<p>9:35am - 9:55am Talk-Live Regular Talk</p> <p>Automating bespoke online teaching with R Rhian Davies</p>
<p>9:55am - 10:15am Talk-Video Regular Talk</p>	<p>Using R6 object-oriented programming to build agent-based models Liam Daniel Bailey, Alexandre Courtiol</p>	<p>9:55am - 10:15am Talk-Live Regular Talk</p> <p>The one-step estimation procedure in R Alexandre Brouste, Christophe Dutang</p>	<p>9:55am - 10:15am Talk-Video Regular Talk</p> <p>Extend the functionality of your R Markdown documents Christophe Dervieux</p>
<p>10:15am - 10:35am Talk-Live Regular Talk</p>	<p>Climate Forecast Analysis Tools Framework: from the storage to the HPC to get reproducible climate research results and services Núria Pérez-Zanón, An-Chi Ho, Francesco Benincasa, Pierre-Antoine Bretonnière, Louis-Philippe Caron, Chihchung Chou, Carlos Delgado-Torres, Llorenç Lledó, Nicolau Manubens, Lluís Palma</p>	<p>10:15am - 10:35am Talk-Video Regular Talk</p> <p>The R Package stagedtrees for Structural Learning of Stratified Staged Trees Federico Carli, Manuele Leonelli, Eva Riccomagno, Gherardo Varando</p>	<p>10:15am - 10:35am Talk-Video Regular Talk</p> <p>Computational aspects of psychometrics taught with R and Shiny Patricia Martinkova</p>
<p>10:45am -</p>	<p>mixR!</p>		
<p>11:45am</p>	<p>Music, networking channel and raffles. To end the day in a relaxing way</p>		

Date: Friday, 09/July/2021

12:30pm -	Keynote: The R-universe project Location: The Lounge #key_ooms Chair: Heather Turner Zoom Host: Yuya Matsumura Zoom Host (R): Priyanka Gagneja Session Slide		
1:30pm	Keynote Talk Jeroen Ooms		
1:30pm -	Break Location: The Lounge #lobby		
1:45pm			
1:45pm -	8A - Statistics and Bioinformatics Location: The Lounge #talk_stats_bioinformatics Chair: Leonardo Collado Torres Zoom Host: Priyanka Gagneja Zoom Host (R): Aditi Shah Session Sponsor: Roche Session Slides	8B - R in Production 2 Location: The Lounge #talk_r_production_2 Chair: Zhian N. Kamvar Zoom Host: Pamela Pairo Zoom Host (R): Yuya Matsumura Session Sponsor: Appsilon Session Slides	8C - Statistical modeling & Data Analysis 1 Location: The Lounge #talk_stats_data_analysis_1 Chair: Liz Hare Zoom Host: Rachel Heyard Zoom Host (R): Balogun Stephen
3:15pm	1:45pm - 2:05pm <i>Talk-Video</i> Regular Talk MolEvolvR: Web-app and R-package for characterizing proteins using molecular evolution and phylogeny Samuel Z Chen, Lauren M Sosinski, John B Johnston, Janani Ravi	1:45pm - 2:05pm <i>Talk-Live</i> Regular Talk Shiny PoC to Production Application in 8 steps Marcin Dubel	1:45pm - 2:05pm <i>Talk-Video</i> Regular Talk fairmodels: A Flexible Tool For Bias Detection, Visualization, And Mitigation Jakub Wiśniewski, Przemysław Biecek
	2:05pm - 2:25pm <i>Talk-Live</i> Regular Talk Using R to Empower a Precision Dosing Web Application Gergely Daroczi	2:05pm - 2:25pm <i>Talk-Live</i> Regular Talk Reliably Reproducible Project Packages Alex Kahn Gold	2:05pm - 2:25pm <i>Talk-Video</i> Regular Talk DoubleML - Double Machine Learning in R Philipp Bach, Victor Chernozhukov, Malte S. Kurz, Martin Spindler
	2:25pm - 2:45pm <i>Talk-Video</i> Regular Talk Visualization of highly-multiplexed imaging data with cytomapper Nils Eling, Nicolas Damond, Tobias Hoch, Bernd Bodenmiller	2:25pm - 2:45pm <i>Talk-Live</i> Regular Talk Binary R Packages for Linux: Past, Present and Future Iñaki Ucar, Dirk Edelbuettel	2:25pm - 2:45pm <i>Talk-Video</i> Regular Talk copent: Estimating Copula Entropy and Transfer Entropy in R Jian MA
	2:45pm - 3:05pm <i>sponsored-live</i> Sponsored Talk Analyzing Clinical Trials Data using R for Exploratory and Regulatory Analyses Adrian Wadde		
3:15pm -	tRivia Chair: Sara Mortara		
4:15pm	Chair: Marcela Alfaro Cordoba		
4:15pm -	Keynote: Communication - elevating data analysis to make a real impact Location: The Lounge #key_communication Chair: Federico Marini Zoom Host: Aditi Shah Zoom Host (R): Balogun Stephen Session Slide		
5:45pm	Keynote Talk Catherine Gicheru, Katharine Hayhoe		
5:45pm -	RechaRge 4 Chair: Marcela Alfaro Cordoba		
6:45pm	Chair Yoga		
6:45pm -	Incubator: Expanding the R community in the Middle East and North Africa (MENA) Location: The Lounge #incubator_mena Chair: Batool Almarzouq Zoom Host: Pamela Pairo Zoom Host (R): Aditi Shah	Incubator: Stop reinventing the wheel: R package(s) for conference and abstract management Location: The Lounge #incubator_conference_abstract Chair: Matt Bannert Chair: Janani Ravi Zoom Host: Balogun Stephen Zoom Host (R): Yuya Matsumura	
7:45pm	Incubator Batool Almarzouq, Mariam Almarzouq, Hedia Tnani, Mouna Belaid, Kamila Benadrouche, Haifa Ben Messaoud	Incubator Matthias Bannert, Janani Ravi	
7:45pm -	Break Location: The Lounge #lobby		
8:00pm			
8:00pm -	9A - R in production 3 Location: The Lounge #talk_r_production_3 Chair: Jennifer Bryan Zoom Host: Aditi Shah Zoom Host (R): Pamela Pairo Session Sponsor: Roche	9B - Community and Outreach 2 Location: The Lounge #talk_community_outreach_2 Chair: Stefanie Butland Zoom Host: Yuya Matsumura Session Slide	9C - Statistical modeling and data analysis 2 Location: The Lounge #talk_stats_data_analysis_2 Chair: Balasubramanian Narasimhan Zoom Host: Balogun Stephen Session Slide
9:30pm			

Session Slides

8:00pm - 8:20pm

Talk-Video

Regular Talk

Production Metrics for R with the 'openmetrics' PackageAaron Jacobs

8:20pm - 8:40pm

sponsored-live

Sponsored Talk

Automating business processes with RFrans van Dunné

8:40pm - 9:00pm

sponsored-live

Sponsored Talk

RStudio Managed Workbench -Patrick Schratz

9:00pm - 9:20pm

sponsored-live

Sponsored Talk

A little bit about RStudioJoseph Rickert

8:00pm - 8:20pm

Talk-Video-NE

Regular Talk

Using R in Latin America: the great, the good, the bad, and the uglyVirginia A. García Alonso, Paola Corrales, Claudia A. Huaylla, Andrea Gómez Vargas, Joselyn Chávez, Denisse Fierro Arcos

8:20pm - 8:40pm

Talk-Live

Regular Talk

r-community.org: a central community infrastructure for RCHIBUOKEM BEN UBAH, RICK PACK, MEET BHATNAGAR

8:40pm - 9:00pm

Talk-Live

Regular Talk

CovidR and rmdgallery: A streamlined process for collecting community contributions in a gallery websiteRiccardo Porreca, Francesca Vitalini

9:00pm - 9:20pm

Talk-Live

Regular Talk

How open-source and R enable state-of-the-art media productionEric Nantz

8:00pm - 8:20pm

Talk-Video

Regular Talk

bssm: Bayesian Inference of Non-linear and Non-Gaussian State Space Models in RJouni Helske, Matti Vihola

8:20pm - 8:40pm

Talk-Video

Regular Talk

bnmonitor: Checking the Robustness and Sensitivity of Bayesian NetworksRachel Wilkerson, Manuele Leonelli, Ramsiya Ramanathan

8:40pm - 9:00pm

Talk-Live

Regular Talk

FLAME: Interpretable Matching for Causal InferenceVittorio Dominic Orlandi, Sudeepa Roy, Cynthia Rudin, Alexander Volfovsky9:30pm
-
11:30pm**Closing and Awards**Location: [The Lounge #announcements](#)Chair: [Andrea Sánchez-Tapia](#)Chair: [Marcela Alfaro Cordoba](#)Zoom Host: [Pamela Pairo](#)

We will announce awards for presentations and recognize the work of those who have helped the R community grow. We will also have a short presentation about the next useR!