

17/20 JUNE MILANO

Program

Data science is writing the future. Come and leave a mark on it.

e-Rum 2020

Welcome to



The European R users meeting (eRum) is a biennial conference that brings the R User Community of Europe together to exchange experiences, broaden knowledge of R and collaborate.

eRum is an open event, and it welcomes expert and skillful practitioners as well as people who just want to take a peek on the future of data science. eRum aims to provide a platform for the creation of new collaborations and for sharing experiences. eRum is a no profit conference, and this year it will be a totally virtual event, with free access for everyone. Get ready for e-Rum 2020!

The e-Rum 2020 organizing and program committees

Version 5 - 2020/06/17



17/06 18/06 19/06 Area Area 08:30 08:30 Yoga 08:30 Yoga Yoga Yoga session Yoga session Yoga session session session 08:40 08:40 08:40 sessions 08:50 08:50 08:50 09:00 09:00 09:00 Reception & Welcome Reception & Welcome Stage Stage Stage Reception & Welcome 09:10 09:10 09:10 Sessions Sessions **Lightning talks 2** Lightning talks 1 09:20 09:20 09:20 Institutional Openings Talks Parallel session 6 Data Visualization Life Sciences 09:30 09:30 09:30 & R in Production R in Production Parallel session 5 09:40 09:40 09:40 Stage R World 09:50 09:50 09:50 Speakers Q&A Speakers Q&A 10:00 10:00 10:00 Q&A 10:10 10:10 **Invited Session 1** 10:10 Lightning talks 3 Lightning talks 4 10:20 10:20 10:20 **Machine Learning Applications** Q&A 10:30 10:30 10:30 10:40 10:40 10:40 Stage 10:50 10:50 10:50 Speakers Q&A Speakers Q&A Q&A 11:00 11:00 11:00 **Keynote 3: Francesco Bartolucci** Stage Personal 11:10 sessions 11:10 11:10 Virtual Break: Meet the sponsors 11:20 11:20 11:20 **Keynote 5: Tomas Kalibera** 11:30 11:30 11:30 Sessions Sessions 11:40 11:40 11:40 11:50 11:50 11:50 Sessions **Parallel Session 2 Parallel Session 8 Parallel Session 1 Parallel Session 7** 12:00 12:00 12:00 Machine Learning Machine Learning Life Sciences Data visualization Parallel session 9 **Parallel session 10** 12:10 12:10 12:10 R in Production Machine Learning & 12:20 12:20 12:20 **Applications** 12:30 12:30 12:30 12:40 12:40 12:40 Q&A Q&A Q&A O&A 12:50 12:50 12:50 Q&A Q&A 13:00 13:00 13:00

^{*}Times are indicative. Check detailed information on further pages for exact timeslots of sessions. Please note that all times in this document are in CEST (Central European Summer Time)

17/06 18/06 19/06

			Area				Area				Area
14:00	Keynote 1: Stephanie Hicks		Stage	14:00			Stage	14:00			Stage
14:10				14:10				14:10			
14:20				14:20	20			14:20			
14:30				14:30 Invited Session 2			14:30	Invited Session 3			
14:40				14:40				14:40			
14:50	Virtual Break: Meet the sponsors			14:50				14:50			
15:00			Sessions	15:00				15:00			
15:10				15:10	Q&A		Personal sessions	$() \times \Delta$		&A	Personal sessions
15:20 15:30	Parallel Session 3	Parallel Session 4		15:20				15:20			
15:40	Applications & R in Production	Life Sciences		15:30 15:40	Shiny Demo 1	Shiny Demo 2	Sessions	15:40	Poster session 1	Poster session 2	Sessions
15:50	KillFloddelloll				Machine Learning	Mobility & Spatial Data					Personal
				15:50				15:50			sessions
16:00				16:00	00.4	O 8 A		16:00	Q&A	Q&A	
16:10 16:20	Q&A	Q&A		16:10 16:20	Q&A	Q&A	Chana	16:10 16:20			
16:30			Ctago	16:30	Wha From eRum		Stage	16:30			Ctago
16:40			Stage	16:40	Trom enam	res e Ram	Stage	16:40			Stage
16:50	Keynote 2: Jared Lander			16:50	Keynote 4: Sharon Machlis		Stage	16:50	Keynote 6: K	Keynote 6: Kelly O'Briant	
17:00				17:00				17:00			
17:10				17:10				17:10			
17:20			Stage	17:20				17:20	Closing Party		Stage
17:30	0 Yoga sassion		Yoga	17:30	Closing Remarks		Stage	17:30			
17:40			Session	17:40	Yoga session		Yoga	17:40	Yoga session		Yoga
17:50				17:50			Session	17:50			Session

^{*}Times are indicative. Check detailed information on further pages for exact timeslots of sessions. Please note that all times in this document are in CEST (Central European Summer Time)



Keynotes and invited speakers.

Keynotes



Stephanie
Hicks
Using R and Data
Science to Improve
Human Health

17/06 - 14:00



Jared Lander Applying R at Work

17/06 - 16:30



Francesco
Bartolucci
Latent Markov
Models for
Longitudional Data in
R by LMest package

18/06 - 10:40



Sharon Machlis What I Learned as an R Journalist



Tomas Kalibera The Invisible Work on R



Kelly
O'Briant
To be announced

18/06 – 16:40

19/06 - 11:00

19/06 - 16:30

Invited Speakers







Ioannis Kosmidis



Maëlle Salmon



Szilard Pafka



Robin Lovelace







Colin



Britta Velten



Fay



Emanuele Guidotti



Mark Hanly

Colin Gillespie





Wednesday 17/6

```
Yoga Session – Yoga Session
08:30-08:50
09:00-09:10
             Reception and Welcome – Stage
09:15-09:40
             Institutional Talks – Stage
09:40-11:10
             Invited Session 1 – Stage
11:10-11:30 Virtual Break – Meet the sponsors
11:30-12:55 Parallel Session 1 & 2 – Sessions
13:00-14:00
             Virtual Lunch Break
             Thematic Lounge
             Meet the sponsors
14:00-14:45
             Keynote: Stephanie Hicks - Stage
14:45-15:00 Virtual Break – Meet the sponsors
15:00-16:25 Parallel Session 3 & 4 – Sessions
             Keynote: Jared Lander – Stage
16:30-17:15
             Closing Remarks – Stage
             Yoga Session – Yoga Sessions
```

Session 1

9:40

Stage

9:45

Britta Velten
Multi-Omics Factor Analysis Plus: A probabilistic framework for comprehensive and scalable integration of multi-modal data

10:00

Emanuele Guidotti
COVID-19 Data Hub
#covidR winner

10:15

Mark Hanly
Transmission and Interventions

10:30

Edwin Thoen
Building Agile data products leveraging the R package structure

10:50

Personal Sessions

Q&A

Parallel Session 1

Machine Learning

11:30	Session 1	
11:35	Daniel Meister	Deduplicating real estate ads using Naive Bayes record linkage
11:50	Emanuele Cordano	Hydrological Modelling and R
12:05	Stefano Renzetti	gWQS: An R Package for Linear and Generalized Weighted Quantile Sum (WQS) Regression
12:20	Øystein Sørensen	Flexible Meta-Analysis of Generalized Additive Models with metagam
12:40	Session 1	Q&A

Parallel Session 2

Life Sciences

11:30	Session 2	
11:35	Simone Pernice	CONNECTOR: a computational approach to study intratumor heterogeneity
11:50	Paolo Castagno	EPIMOD: A computational framework for studying epidemiological systems
12:05	Mieke Deschepper	How to apply R in a hospital environment on standard available hospital-wide data
12:20	Nicolò Margaritella	APFr: Average Power Function and Bayes FDR for Robust Brain Networks Construction
12:40	Session 2	Q&A

Keynote: Stephanie Hicks



14:00 - Stage

Using R and data science to improve human health

Stephanie Hicks is an Assistant Professor in the Department of Biostatistics at Johns Hopkins Bloomberg School of Public Health. She is also a faculty member of the Johns Hopkins Data Science Lab, co-host of The Corresponding Author podcast discussing data science in academia, and co-founder of R-Ladies Baltimore. Her research interests are at the intersection of statistics, genomics, and data science. She actively contributes software packages to Bioconductor and is involved in teaching courses for data science and the analysis of genomics data.

Session 3 **Parallel Session 3** 15:00 Leen Jooken Using process mining principles to extract a collaboration graph 15:05 from a version control system log Alex Gold Design Patterns For Big Shiny Apps 15:20 **Applications &** 15:35 **Ayomide Shodipo** Fake News: Al on the battle ground **R** in Production **Henrik Bengtsson** progressr: An Inclusive, Unifying API for Progress Updates 15:50 Session 3 Q&A 16:10

Parallel Session 4

15:00

Session 4

15:05

Moritz Hess Interpretable and accessible Deep Learning for omics data with R and friends

Life Sciences

15:20

Federico Marini GeneTonic: enjoy RNA-seq data analysis, responsibly

15:35

Mattia Chiesa DaMiRseq 2.0: from high dimensional data to cost-effective reliable

prediction models

15:50 Francesca Giorgolo A simple and flexible inactivity/sleep detection R package

16:10 Session 4 Q&A

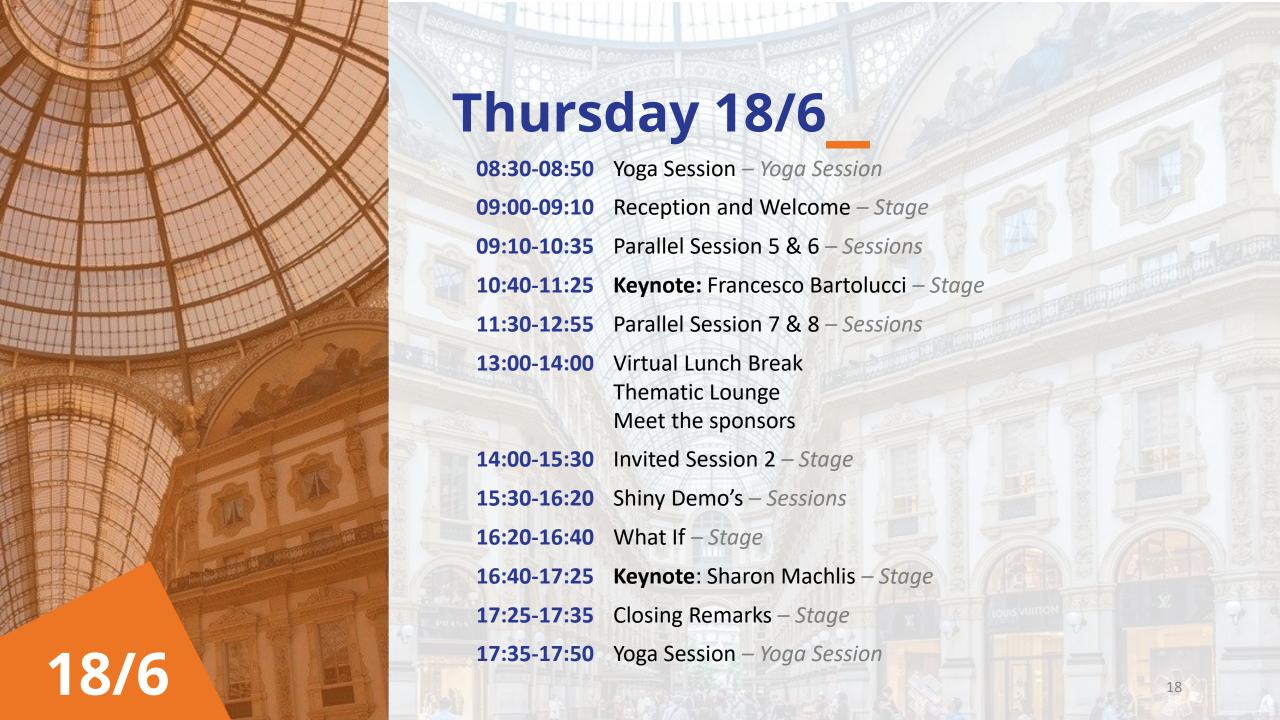
Keynote: Jared Lander



16:30 - Stage

Applying R at Work

Jared Lander is Chief Data Scientist at Lander Analytics, and Adjunct Professor at Columbia Business School, where he teaches the Introduction to Programming in R course. He is organizer of the New York Open Statistical Programming Meetup and Series Editor for Pearson. He is author of the R packages coefplot, useful, resumer and RepoGenerator, as well as the book "R for Everyone: Advanced Analytics and Graphics". His work with the Minnesota Vikings in the 2015 NFL Draft has been featured in in the Wall Street Journal.



Parallel Session 5

R World

9:10	Session 5	
9:15	Joseph Rickert	The R Consortium 2020: adapting to rapid change and global crisis
9:30	Regina Siegers	CorrelAidX - Building R-focused Communities for Social Good on the Local Level
9:45	Christoph Sax	From consulting to open-source and back
10:00	Dmytro Perepolkin	{polite}: web etiquette for R users
10:20	Session 5	Q&A

Parallel Session 6

9:10

Session 6

9:15

Layik Hama
Powering Turing e-Atlas with R

Silano
Silano
Silano
Silano
Supporting R in the Binder Community

Powering Turing e-Atlas with R

Keynote: Francesco Bartolucci



10:40 - Stage

Latent Markov models for longitudinal data in R by LMest package

Francesco Bartolucci is a Professor of Statistics in the Department of Economics of the University of Perugia, where he also coordinated the Doctorate program in "Mathematical and Statistical Methods for the Economic and Social Sciences". The main research interests of Francesco are focused on: Longitudinal and panel data, Latent variable and mixture models, Marginal models for categorical data, Optimization and Markov chain Monte Carlo algorithms. He coauthored the R packages LMest, MultiCIRT, MLCIRTwithin, cquad and extRC.

Session 7 **Parallel Session 7** 11:30 **Tatjana Kecojevic** Transparent Journalism Through the Power of R 11:35 11:50 **Mustapha** Elevating shiny module with {tidymodules} **Data Visualization** Larbaoui Renate Delucchi Interactive visualization of complex texts 12:05 **Danhier** Tobias Verbeke What's New in ShinyProxy 12:20 Session 7 Q&A 12:40

Parallel Session 8 11:30 Session 8 11:35 Luís G. Silva Voronoi Linkage for Spatially Misaligned Data 11:50 Andrea Sottosanti Astronomical source detection and background separation: a Bayesian nonparametric approach 12:05 Apostolos Chalkis High dimensional sampling and volume computation 12:20 Riccardo Corradin BNPmix: an new package to estimate Bayesian nonparametric mixtures

Session 8 Q&A

12:40

Invited speakers 14:00 Stage **Ioannis Kosmidis** brquasi: Improved quasi-likelihood estimation **Session 2** 14:05 14:20 Szilard Pafka Better than Deep Learning: Gradient Boosting Machines (GBM) with 2020 updates 14:35 **Colin Fay** Testing Shiny: What, why, and how. 14:50 **Robin Lovelace** From writing code to infoRming policy: a case study of reproducible research in transport planning **Personal Sessions Q&A** 15:10

Shiny Demo's

15:30-16:05 Presentations

16:05-16:20 Q&A in personal sessions

Shiny Session 1 Mintu Nath A demonstration of ABACUS: Apps Based Activities for Communicating and Understanding Statistics **Emanuele Fabbiani** tsviz: a data-scientist-friendly addin for RStudio Andrea Melloncelli Media Shiny: Marketing Mix Models Builder Ottavia M. Epifania Scoring the Implicit Association Test has never been easier: DscoreApp Riccardo Porreca rTRhexNG: Hexagon sticker app for rTRNG **Antoine Logean** How green is your portfolio? Tracking C02 footprint in the insurance sector **Shiny Session 2** Agostino Torti Visualising and Modelling Bike Sharing Mobility usage in the city of Milan **Angel Udias** ESPRES: A shiny web tool to support River Basin Management

planning in European Watersheds

Josue Aduna Mobility scan

Lorenzo Busetto Developing Shiny applications to facilitate precision agriculture workflows

Luigi Ranghetti "GUInterp": a Shiny GUI to support spatial interpolation 25

Keynote: Sharon Machlis



16:40 - Stage

What I Learned as an R Journalist

Sharon Machlis is Director of Editorial Data & Analytics at IDG Communications, a global technology media company that publishes Computerworld, CIO, PCWorld, and Macworld, among other brands. In her current role, she hosts InfoWorld's "Do More With R" video series, writes R how-to articles, helps colleagues with data journalism projects, codes tools for colleagues around the world, and analyzes editorial web metrics. Sharon is the author of "Practical R for Mass Communication & Journalism" and the Computerworld Beginner's Guide to R She has also written a number of R packages, among which SunsetTSA.



Friday 19/6

08:30-08:50 Yoga Session – *Yoga Session* 09:00-09:10 Reception and Welcome – Stage 09:10-10:05 Lightning Talks 1 & 2 – Sessions 10:05-11:00 Lightning Talks 3 & 4 – Sessions 11:00-11:45 **Keynote**: Tomas Kalibera – *Stage* **11:45-13:10** Parallel Session 9 & 10 – Sessions **13:10-14:00** Virtual Lunch Break Thematic Lounge Meet the sponsors 14:00-15:30 Invited Session 3 – Stage **15:30-16:20** Poster Session – *Sessions* 16:30-17:15 **Keynote:** Kelly O'Briant – Stage 17:15-17:35 Closing Party – Stage **17:40-18:00** Yoga Session – *Yoga Session*

Lightning Talks

9:10- 9:50 Presentations

9:50-10:05 Q&A



Lightning Talks 1

Steffen Moritz Time Series Missing Data Visualizations

Thierry Onkelinx effectclass: an R package to interpret effects and visualise uncertainty

Gabriele Galatolo Supporting Twitter analytics application with graph-databases and the aRangodb package

Kirill Muller dm: working with relational data models in R

Matilde Grecchi An innovative way to support your sales force

Nicholas Jhirad Keeping on top of R in Real-Time, High-Stakes trading systems

Lightning Talks 2

Andrea Cappozzo An enriched disease risk assessment model based on historical blood donors records

Marco Calderisi A principal component analysis based method to detect biomarker captation from vibrational spectra

Mirko Signorelli ptmixed: an R package for flexible modelling of longitudinal overdispersed count data

Dario Righelli Differential Enriched Scan 2 (DEScan2): an R pipeline for epigenomic analysis

Ger Inberg Reproducible Data Visualization with CanvasXpress

Liam Brierley Using open-access data to derive genome composition of emerging viruses

Lightning Talks

10:05-10:45 Presentations

10:45-11:00 Q&A

Lightning Talks 3

Florian Privé Ultra fast penalized regressions with R package {bigstatsr}

Krystian Igras Explaining black-box models with xspliner to make deliberate business decisions

Mustafa Cavus One-way non-normal ANOVA in reliability analysis using with doex

Øystein Sørensen Analyzing Preference Data with the BayesMallows Package

Sami Diaf Predicting Business Cycle Fluctuations Using Text Analytics

Stefan Lenz Flexible deep learning via the JuliaConnectoR

Lightning Talks 4

Berry Boessenkool rdwd: R interface to German Weather Service data

Christoph Sax tv: Show Data Frames in the Browser

Claus Ekstrom Predicting the Euro 2020 results using tournament rank probabilities scores from the socceR package

Indranil Ghosh Design your own quantum simulator with R

Keshav Bhatt What are the potato eaters eating

Niels Martin Towards more structured data quality assessment in the process mining field: the DaQAPO package

Keynote: Tomas Kalibera



11:00 - Stage

The Invisible Work on R

Tomas Kalibera is researcher at the Czech Technical University. As an active R Core developer Tomas has been contributing improvements and bug fixes to multiple parts of the R runtime including the bytecode compiler and interpreter, source reference handling, Windows specific code, package installation, memory management, object dispatch and function invocation. He implemented and maintains rchk, a tool for finding PROTECT bugs, which he uses regularly to check CRAN packages. He has been helping the CRAN team with checking and debugging packages, and is a member of the R Foundation.

Parallel Session 9

R in Production

11:45	Session 9	
11:50	Marcin Dubel	Be proud of your code! Tools and patterns for making production-ready, clean R code
12:05	Matthias Bannert	R alongside Airflow, Docker and Gitlab CI
12:20	André Rivenæs & Markus Mortensen	Using XGBoost, Plumber and Docker in production to power a new banking product
12:35	Andrie De Vries	Creating drag-and-drop shiny applications using sortable
12:55	Session 9	Q&A

Parallel Session 10

Machine Learning & Applications

11:45	Session 10	
11:50	Jędrzej Świeżewski	FastAI in R: preserving wildlife with computer vision
12:05	Luca Torriani & Ilaria Sartori	Manifoldgstat: an R package for spatial statistics of manifold data
12:20	Jakob Dambon	varycoef: Modeling Spatially Varying Coefficients
12:35	Mikkel Meyer Andersen	Computer Algebra Systems in R
12:55	Session 10	Q&A

Invited Speakers Session 3

14:00 Stage
14:05 Dean Attali CRANalerts: A Shinyapp-as-a-Service for Impatient R Users
14:20 Colin Gillespie And you thought CRAN was harsh
14:35 Maëlle Salmon How to improve your R package?
14:50 Romain François dplyr 1.0.0
15:10 Personal Sessions Q&A



Poster Session

15:30-15:50 Presentations 15:50-16:20 Q&A in personal sessions

Alessio Crippa A flexible dashboard for monitoring platform trials Angela Andreella PRDA package: Enhancing Statistical Inference via Prospective and Retrospective Design Analysis Dario Righelli EasyReporting: a Bioconductor package for Reproducible Research implementation **Federico Agostinis** NewWave: a scalable R package for the dimensionality reduction of single-cell RNA-seq Patricia Ryser-Welch Integrating professional software engineering practices in medical research software **Tobias Schieferdecker** Dealing with changing administrative boundaries: The case of Swiss municipalities **Poster Session 2** Binod Jung Bogati Automate flexdashboard with GitHub Gabriel Okasa orf: Ordered Random Forests

Marco Calderisi Power Supply health status monitoring dashboard

Natalja Maksimova First-year ICT students dropout predicting with R models

Olalekan Joseph Benchmark Percentage Disjoint Data Splitting in Cross Validation for Assessing Akintande the Skill of Machine

Yann Desjeux badDEA: An R package for measuring firms' efficiency adjusted by undesirable

outputs

Poster Session 1

Aurélien Severino CorpFinder- a new application to identify Large Corporate Risks

Keynote: Kelly O'Briant



16:30 - Stage

Kelly O'Briant is a Solutions Engineer at RStudio interested in configuration and workflow management with a passion for R administration. She has a background in data science, software engineering and cloud computing, with degrees in bioinformatics and computational sciences. In 2016, Kelly founded the Washington DC chapter of R-Ladies, a global organization dedicated to increasing gender diversity in the R community.



Saturday 20/6

09:00-09:20 Yoga session

09:30-12:30 Morning Workshops

12:30-14:00 Virtual Lunch Break

14:00-17:00 Afternoon Workshops

17:10-17:30 Yoga session

Workshops

Morning sessions 9:30-12:30

Morning

Lubomír Štěpánek Jiří Novák Image processing and computer vision with R

Hubert Baniecki with R

Przemyslaw Biecek Explanation and exploration of machine learning models

Patricia Ryser-Welch

Paul Burton Stuart Wheater Olly Butters Becca Wilson

Demetris Avraam
Non-disclosive federated analysis in R

Cristina Muschitiello A unified approach for writing automatic reports: Niccolò Stamboglis parameterization and generalization of R-Markdown

Andrea Melloncelli

Is R ready for Production? Let's develop a Professional Shiny Application!

Workshops

14:00-17:00 Afternoon sessions

Afternoon

Tatjana Kecojevic

Tijana Blagojev

Katarina Kosmina Build a website with blogdown in R

The Renku Development Team

Christine Choirat Reproducible workflows with the RENKU platform

Riccardo Porreca Bring your R Application Safely to Production. Collaborate, Peter Schmid Deploy, Automate.

Jean-Philippe Coene How to build htmlwidgets

Goran Milovanović Semantic Web in R for Data Scientists

David Granjon

Mustapha Larbaoui Ardalan Mirshani **Douglas Robinson**

Xiao Ni, Bo wang Advanced User Interfaces for Shiny Developers

Yoga sessions

Tired of sitting endlessly behind your desk? Start and end each day of e-Rum with a virtual Yoga session!

About the instructor

Paola Panella is a certified international yoga teacher. After living in Dublin for 6 years, where she embraced her studies of the thousand-year old discipline of Yoga and Ayurvedic medicine, she had continued her formation and practice with various master teachers in a number of teacher trainings and workshops held all over the world. In Italy, she currently manages two yoga studios in Turin and organizes yoga retreats and trips in Italy and in Bali.

17/06	08:30-08:50	Let the joints breathe
	17:30-17:50	Release the tension of your back
18/06	08:30-08:50	Elongate your spine
	17:40-18:00	Mini-sequence for your back
19/06	08:30-08:50	Breathe and move
	17:40-18:00	Twists after the desk
20/06	09:00-09:20	Sun Salutation for all – How to start the day right
	17:10-17:30	Stretch-strengthen-connect – Feel & enjoy your body



Website

http://www.madreindia.it/

Instagram

@madre_india

Facebook

@madre.india



Thematic Lounges...

...to enjoy your virtual lunch break

Even at a virtual conference as this, you do not have to miss out on informal gatherings and discussions. Pull up a chair in our virtual *thematic lounges* during lunch to enjoy an open conversation on several themes.

17/06 13:00-14:00 Developing Software and Careers in Life Sciences

18/06 13:00-14:00 Building Community & Diversity

19/06 13:00-14:00 Data Science: freelancing and business

Recruiting sessions

During the conference, recruiting sessions are organized. Attendees who submitted their CV may have been invited by interested companies sponsors. Recruiting sessions will take place in dedicated Hopin sessions at the indicated times.



17/06	15:00-16:00	Cynkra
18/06	9:00-10:00	SDG
	11:30-12:30	SDG
19/06	10:00-11:00	Revelo
	12:00-13:00	Cynkra
	13:00-14:00	SolidQ









Meet the team behind e-Rum.





Mariachiara Fortuna *Chair*



Francesca Vitalini *Vice-chair*

Organizing Committee



Emanuela Furfaro *Venue* coordinator



Mirko Signorelli *Promotion coordinator*



Federico Marini *Program coordinator*



Riccardo Rossi YouTube content coordinator



Roberta Sirovich Sponsors coordinator



Andrea Melloncelli *Tech Coordinator*



Lorenzo Salvi *Admin* coordinator



Riccardo Porreca CovidR coordinator



Andrea Guzzo Tech team



Gert Janssenswillen Social media manager



Serena Signorelli Social media manager



Filippo Chiarello *Attendees coordinator*



Gabriele Orlando



Matteo Borrotti



Laura Terzera



Matteo Pelagatti



Marta Galvani



Matteo Fontana



Parvaneh Shafiei

Organizers







Organizing partners







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Mariachiara Fortuna



Andrea Melloncelli

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Vittoria Toso Graphic designer



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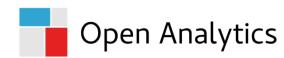
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Patronage



