

EARL

conference

2025

Agenda

EARL 2025 | Enterprise Applications of the R (& Python) Language



Datacove

**SILICON
BRIGHTON** 

Tuesday 14th October

08:30 to 09:00 | Networking with Tea and Coffee

09:00 to 12:30 | Morning Workshop (Stream One)

Dynamic presentations with Quarto

Myles Mitchell

Jumping Rivers



Quarto is an open-source publishing system that lets you combine text and code to create dynamic content in HTML, PDF, dashboards, and more. This workshop will show you how to create presentations that automatically update when data changes, saving you time and making your presentations more powerful.

This workshop will cover:

- Creating presentations using Quarto
- Embedding executable R/Python code
- Dynamically adding plots and tables
- Styling slides with template CSS files
- Publishing presentations to the web

Requirements:

Basic experience in R or Python. No prior knowledge of CSS, Quarto, or Markdown needed.

A cloud environment with all dependencies pre-installed will be provided.

Tuesday 14th October

09:00 to 12:30 | Morning Workshop (Stream Two)

Simulation guided Bayesian Designs using R

Lincoln Colling
Nomio



This workshop covers a basic introduction to Bayesian statistics, including a theoretical understanding of Bayesian methods, as well as hands-on activities. Participants will learn the key differences between Bayesian and frequentist approaches and discover the advantages of Bayesian methods. The workshop begins with a conceptual introduction to help build intuitions about Bayesian methods. We then work through hands-on examples in R

This workshop will cover:

- Bayesian hypothesis testing,
- How Bayesian methods solve the problem of stopping experiments early
- Bayesian regression modelling

Requirements:

No prior knowledge of Bayesian statistics is required.

A list of R packages will be shared in advance for the practical session.,

12:30 to 13:30 | Break

Tuesday 14th October

13:30 to 17:00 | Afternoon Workshop (Stream One)

Core Machine Learning Concepts in Python

Aida Gjoka

Jumping Rivers



Machine learning is a powerful tool for uncovering patterns and making predictions. This workshop blends theory, real-world case studies, and practical coding exercises to help you build foundational skills in supervised and unsupervised learning using Python.

This workshop will cover:

- Introduction to machine learning
- Regression techniques
- Model assessment and feature selection
- Classification
- Clustering

Requirements:

No prior Python experience required.

A cloud environment with pre-installed libraries will be provided. All materials will be shared via GitHub.

Tuesday 14th October

13:30 to 17:00 | Afternoon Workshop (Stream Two)

Deploying AI in R with {ellmer} and {shiny}: From Experimentation to Production

Nic Crane

Freelance R Consultant



Large language models (LLMs) are transforming workflows, but effective use in R requires careful design and deployment. This hands-on workshop introduces the {ellmer} package and shows how to integrate AI into R and Shiny applications.

This workshop will cover:

- Prompt design and engineering
- Using the {ellmer} R package
- Building LLM-powered Shiny apps
- Deploying LLM applications responsibly

Requirements:

Basic experience with R and Shiny. No prior LLM experience needed.

Code examples and exercises will be provided to reinforce key concepts.

17:00 | End of Day

Wednesday 15th October

08:30 to 09:00 | Networking with Tea and Coffee

09:00 to 10:30 | Session One

09:00 to 09:05 | Conference Opening Remarks | Jeremy Horne

09:05 to 09:45 | Keynote Rachel Keane

09:50 to 10:30 | Keynote Eric Drass

10:30 to 11:00 | Break

11:00 to 12:30 | Session Two

Stream One
R in Wildlife

Stream Two
Data Visualisation in R and Python

11:00 **R is for (Horse) Racing**
to Colin Magee & Jay Emerson
11:30 Doorda & Yale University

11:00 **Duck, Duck,... Dashboard!**
to Laura Mawer
11:30 Datacove

11:30 **Understanding Dog Relinquishment:
to Insights From Multidimensional
12:00 Analysis in R**
Dr Sarah Weidman & Chris Newton
Dogs Trust

11:30 **Making Hybrid-Working Work for
to Workers by Visualising Real-Time
12:00 Office Desk and Room Availability With
Leaflet and Shiny**
Luke Bandy
The Pensions Regulator

12:00 **How We Share 300 Million Wildlife
to Records Online for Free and What They
12:30 Tell Us**
Will Millard
National Biodiversity Network Trust

12:00 **Jupyter Widgets for R**
to Romain François
12:30 T.A.DA

12:30 to 13:30 | Lunch

13:30 to 15:00 | Session Three

Stream One R For Good		Stream Two Data Science At Scale	
13:30 to 14:00	Enhancing Efficiency and Creativity With Natural Language Processing and Generative AI in R Shiny Apps Katy Morgan Government Internal Audit Agency	13:30 to 14:00	Measuring advertising impact in R: Workspace's first TV campaign. Cherry Tian & Jeremy Horne Workspace & Datacove
14:00 to 14:30	Delay-Related Harm: Direct and Indirect Impacts of Boarding Medical Patients in the Emergency Department on the Urgent and Emergency Care Pathway Nick Howlett NHS	14:00 to 14:30	Bespoke GA4 Anomaly Detection With Python Zac Nash Fresh Egg
14:30 to 15:00	Lucidum: An R Shiny App to Build and Communicate Insurance Pricing Models Gary Hemming Lucidum Data Science	14:30 to 15:00	From Prototype to Production: A Brief History of a Data Project That Was Supposed to Be Simple, Became Complex, and Still Only Occasionally Falls Over Andres Baravalle On The Beach

15:00 to 15:30 | Break

15:30 to 17:00 | Session Four

Stream One R and Py with AI		Stream Two Fundamentals of Analytics	
15:30	AI Transcription: Creating a to Productionised Internal Tool	15:30	Validation of R Packages for Regulated to Industries
16:00	Elizabeth Brown Branding Science	16:00	Colin Gillespie Jumping Rivers
16:00	Enhancing Sensory Product Testing to With R, Python and Large Language 16:30 Models (LLMs)	16:00	Automating the Mundane: Leveraging to Python for Data Mappings and Test 16:30 Data Gen
	Jack Westcott & Kasidit Tipayawatn MMR Research Worldwide Ltd		James Mullan Snap Analytics
16:30	From Fragmentation to Transparency: to Using AI to Democratise Social Care	16:30	AI Agents in the Data Pipeline
17:00	Data	to	Craig West
	Amit Kohli Access Social Care	17:00	Agentic Pythonista

17:00 | Closing Remarks | End of Day One of EARL

Evening Event and the Royal Pavillion - Ticket Holders Only - Tickets Available at Front Desk

Thursday 16th October

08:30 to 09:00 | Networking with Tea and Coffee

09:00 to 10:30 | Session One

09:00 to 09:05 | Conference Opening Remarks | Jeremy Horne

09:05 to 09:55 | Panel: **Connecting the Dots: Leadership Strategies for Data-Driven Decision Making**

Hosted by Alice Dewar-Mills, Fractional on Demand

With: Jan-Aage Frydenbo-Bruvoll, Skipa

Andy Cottle, Antisana

Kate Ashworth-Brash, Freelance

09:55 to 10:25 | Lightning Talks

09:55 to 10:05	Human Side of Change Masha Gaganova, MGM Creative Solutions
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10:05 to 10:15	R Wizardry: Building Capability and Community From the Bottom Up Stephen Price, City and Guilds
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10:15 to 10:25	Targets and Tasks: Make Inspired Live Refresh Joseph Osborne, Zap-Map
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10:30 to 11:00 | Break

11:00 to 12:30 | Session Two

Stream One Code Validation		Stream Two Simulating the World with R and Python	
11:00	R Validation – From Theory to Practice to Mike Smith 11:30 Pfizer	11:00	Digging Into Free-Text Data in Dog Behavioural Welfare Datasets to Jana Muschinski & Mel Weedon 11:30 Dogs Trust
11:30	Creating Validated Data Pipelines With Nextflow to Mark Sellors 12:00 Atorus Research	11:30	Pythonic Pathways to Carbon Clarity: Estimating Indirect Emissions to Jason Verrall 12:00 The Pensions Regulator
12:00	Scaling Up Enterprise Data Science in R with Arrow and Parquet to Nic Crane 12:30 NC Data Labs	12:00	Simulating the Universe... With Python? to Stephen Wilkins 12:30 University of Sussex

12:30 to 13:30 | Lunch

13:30 to 15:00 | Session Three

Stream One R and Py with AI		Stream Two Statistical Modelling in R	
13:30 to 14:00	The 4th Hyperludic Accelerant: "How Can We Know Where We Are Going If We Don't Know Where We've Been?" Vincent Murphy Hyperludic Ltd	13:30 to 14:00	From R to Bar: Creating a Proof of Concept for Catering Sales Forecasts Megan Bourne Levy
14:00 to 14:30	Building a RAG System For Your Business: A Guide to Delivering Genuine Impact Gabe Musker & Cosima Calder Branding Science & Blok	14:00 to 14:30	Improving Analytics by Using Causal Inference Techniques AJ Small Sky UK
14:30 to 15:00	Classified Success: Using an LLM to Analyse Seller Calls Christopher Campbell AutoTrader	14:30 to 15:00	Why Hospitality Needs Hard Data to Make It More Human Victoria Searl & Josh Williams DataHawks

15:00 to 15:30 | Break

15:30 to 17:00 | Session Four

15:30 to 16:00 | Lightning Talks

15:30 to 15:40	Levelling-Up: An R Shiny Solution Modelling Costing Decisions for Level Crossings Dr Alison Telford, City and Guilds
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15:40 to 15:50	Semi-automatic database normalisation in R Mark Webster, Principle Analyst, Paymentsshield
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15:50 to 16:00	DuckDB for SQL-native Data Science in Python Jamie Matthews, DabApps
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16:10 to 17:00 | Keynote Wes Mckinney

17:00 | End of Conference | Jeremy Horne Closing Remarks

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R & Python Conference

