

R²-R for Research
A two-day workshop by
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Date: 8-9 April 2021
Venue: Zoom (Link provided on registration)

R²

R is an open-source software package and environment for statistical computing and graphics. The R language has received a lot of attention in the last 5 years or so, particularly with its growing use by researchers, statisticians and data miners for their empirical analysis and software development. The growth in the number of R users in recent years has indicated that researchers worldwide are either using R or will use it at some point.

R²-R for Research, the workshop is designed to introduce R to the participants making it easier for them to use R. The most daunting part for people coming from a non-programming background is to write few lines of code. The main objective of the workshop is to introduce R and RStudio and their various capabilities and help the participants in getting started with coding in R. This workshop specifically targets quantitative researchers and research students who are either beginners in R or want to get started. The workshop will cover topics ranging from introduction to the R environment, programming basics, data exploration, and data visualisation to statistical techniques like regression and time series analysis. Specifically, the workshop will cover the following

Day-1: 8th April 2021

10:30 AM to 12 PM

- Introduction to R
- Getting Started
 - Data Types & Variables
 - Data Import and Export
 - Read Data from External Files
 - Write Data to Files

1:00 PM to 3:00 PM

- Programming Basics
- Data Pre-processing
- Data Exploration: Summary Statistics & Graphics

Day-2: 9th April 2021

10:30 AM to 12 PM

- Graphs in R: Introduction to ggplot2
- Introduction to Regression Analysis in R

1:00 PM to 3 PM

- Introduction to Time Series Econometrics using R
- Reproducible research using R – Introduction to R Markdown
- Q&A session.

The workshop will be conducted online over two days, and the participants will be provided with a set of handouts with related code and dataset to be used in the workshop.