



INSTITUTE OF ECONOMIC GROWTH



**12<sup>th</sup> Annual Conference**  
Indian Health Economics and Policy Association  
**Pre-Conference Workshop**

**Application of R Software for Health Data Analysis**

Organized by  
Institute of Economic Growth

📅 January 21<sup>st</sup>, 2025

📍 Venue: Institute of Economic Growth, Delhi

Link for registration and registration fee information: <https://forms.gle/oLgqgv1PWvPRSwcq7>

**Call for Applications**

(Application deadline December 20, 2024)

R is a very useful free language widely used in disciplines like statistics, biostatistics and epidemiology, with increasing use by economists. The R workshop will aim to provide an initial exposure to those who do not know R but would like to learn R. Because it is a programming language this workshop will help newcomers to R get an initial familiarity and cover key aspects of working with R. The following hands-on learning and lab sessions will be of substantive interest to participants.

- ◊ Introduction to R / Rstudio and vectors and dataframes.
- ◊ Wrangling and graphing world development indicators (global health indicators). This will use the famous ggplot package.
- ◊ Introduction to basic data analysis using data from the paper titled "Health awareness and the transition towards clean cooking fuels: Evidence from Rajasthan".
- ◊ Meta-analysis plays a critical role in health policy. The fourth session will be an introduction to conducting a meta-analysis with R using the example of the BCG vaccine.

Participants will be given prior materials to go through and will need to bring their own laptops with the latest versions of R and RStudio installed (from the internet).

Total seats: 20 (preference will be given to PhD scholars and students)

**Resource Persons**



**Dr. Vikram Dayal** is a Professor at the Institute of Economic Growth, Delhi. He has been using the R software in teaching quantitative economics to diverse audiences and is the author of three popular Springer publications titled 'An Introduction to R for Quantitative Economics: Graphing, Simulating and Computing', 'Quantitative Economics with R: A Data Science Approach', and 'Demystifying Causal Inference: Public Policy Applications with R'. He has published research on a range of environmental and developmental issues, from outdoor and indoor air pollution in Goa, India, to tigers and *Prosopis juliflora* in Ranthambore National Park. He studied economics in India and the USA and received his doctoral degree from the Delhi School of Economics, University of Delhi.



**Dr. M. Rahul** is an Assistant Professor in the TATA Chair on Information Technology at the Institute of Economic Growth (IEG), Delhi. His research focuses on applied microeconomics and international trade. Before joining IEG, he served for nearly ten years in the Indian Economic Service, where he conducted research and provided policy inputs on climate change, sustainability, energy, inflation, and the external sector for the Department of Economic Affairs, Ministry of Finance, Government of India. He has also been a Research Officer in the Department of Economic and Policy Research at the Reserve Bank of India. Dr. Rahul holds a PhD in Economics from the Centre for International Trade and Development, Jawaharlal Nehru University, New Delhi.