



## ONLINE SHORT COURSE

# Introduction to R programming

Tuesday, 28 May 2024, 17h00-19h00 SAST

--- Attend this course to earn CPD points through SACNASP ---

### COURSE DESCRIPTION

Whether you are a novice programmer or an advanced beginner, this course will equip you with tools to start coding in R. The R software is a powerful open-source programming language useful for data analysis, visualisation, and machine learning. This course will provide a solid foundation to R programming and cover fundamental topics in its application to data analysis. The combination of theory and practice will help you grasp important concepts and ensure you hit the ground running when you begin coding in R.

#### What you can expect to learn:

1. Introduction to R and RStudio
2. Basics of the R programming language
3. Data manipulation
4. Data visualisation
5. Basic statistical analysis

#### WHAT YOU NEED TO INSTALL BEFOREHAND:

- **R:** <https://cran.r-project.org/>
- **RStudio:** <https://posit.co/download/rstudio-desktop/>

By the end of the course, you will have gained the confidence and skills to start writing your own R scripts, perform data analysis tasks and create insightful visualisations. Whether you are a researcher, student or aspiring data analyst, proficiency in R programming will open a world of possibilities for you!

### PRESENTER

**Kabelo Mahloromela**  
University of Pretoria

Kabelo Mahloromela is a PhD candidate in the Department of Statistics at the University of Pretoria (UP) whose research interests are in statistical analysis with a particular focus on spatial data. His doctoral research is aimed at developing statistical methodology for spatial domains that are more representative of the real-world context.

Alongside his academic pursuits, he serves as a lecturer in UP's Department of Statistics and has invaluable experience in teaching statistics at first- and second-year level.



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