

# Intro to R for Researchers

*An introduction to programming for the research community.*

## Instructors:

**Joy Nyaanga, PhD** - Senior Bioinformatician, DPLM  
**Stella Karuri, PhD** - Statistician, SMCRI

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## Objectives:


This course will introduce basic data analysis concepts and methods using the versatile programming language R. This course will be divided into three sections: (1) R basics, (2) R for statistics, and (3) R for Bioinformatics. This course is appropriate for individuals ranging from those interested in an introduction to using R, to those who maybe have experience in R but want a refresher.

## Takeaways:

- Understand how to perform basic data science tasks (data import, data export, transformation, and visualization)
  - Exposure to R for general statistical analysis
  - Exposure to R for simple bioinformatic analysis
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## Tentative Schedule:

Date	Topic	Instructor
Week 1: Class 1	Getting started: The basics of R Programming	Both
Week 2: Class 2	Case Study: R for Statistics	Stella
Week 2: Class 3	Case Study: R for Bioinformatics	Joy

 *Each class will be divided into 2 sessions. **Session 1** will consist of primarily lecture-based instruction, followed by a short break. **Session 2** will consist of interactive example problems.*

***Note:** This series will be hosted exclusively as an in-person course in a Lurie computer lab. Session 1 of each day will be recorded and available for anyone to view after the course.*