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### 20230424\_R for Reproducible Scientific Analysis Workshop

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# HSLIC News - LibGuides at University of New Mexico

## R for Reproducible Scientific Analysis Workshop

by Lori Sloane on April 24th, 2023 in [Teaching & Learning](#) | [0 Comments](#)

HSLIC, in collaboration with CTSC, University Libraries, and EPSCoR, is introducing researchers, learners, and novice programmers to the R software environment in an upcoming workshop from May 15-19.

R is a powerful tool for working with research data and is commonly used in many scientific disciplines for statistical analysis. This workshop emphasizes building a foundation on the fundamentals of R and teaches best practices for scientific computing: breaking down analyses into modular units, task automation, and encapsulation. We will provide this active, hands-on training session to introduce you to these tools to help you create reproducible code for wrangling and preparing your data for analysis. The last two days will focus on logistic regression.

The ***R for Reproducible Scientific Analysis*** workshop is designed for the novice. No prior knowledge of R, RStudio, or RMarkdown is necessary. We step through the process of working with data, followed by a formative assessment exercise. Helpers assist those in-person and virtually to keep pace with the instructor. It's not about teaching specific skills but building confidence and self-efficacy.

You can sign up for this workshop [here](#) or scan the flyer's QR code. More detailed information about the workshop is posted at the [UNM Health Sciences Center Software Carpentry Workshop](#)

You can direct any questions to [Lori Sloane](#) or [Harry Snow](#).



The flyer is divided into two main color sections: teal on the left and red on the right. The teal section contains the title 'R FOR REPRODUCIBLE SCIENTIFIC ANALYSIS' in large white letters, followed by smaller text 'Presented in collaboration from HSLIC, CTSC, EPSCoR and University Libraries'. The red section features the UNM logo (white 'UNM' letters) and three interlocking gears (two teal, one red) positioned between the teal and red areas. Below the title, the text 'UNM Health Sciences Researchers are invited to participate in a 5-day workshop to learn about manipulating, visualizing, understanding, and analyzing your data in R. R is a programming language coded in the user interface tool, RStudio.' is displayed. At the bottom left, the dates 'MAY 15-19 2023' are written in red. On the right side, under the heading 'Sample Schedule', the 'DAY 1' content is listed: 'Introduction to R, RStudio and RMarkdown. The RMarkdown is used for writing reproducible, dynamic reports with R.'

**R FOR REPRODUCIBLE SCIENTIFIC ANALYSIS**

*Presented in collaboration from HSLIC, CTSC, EPSCoR and University Libraries*

UNM Health Sciences Researchers are invited to participate in a 5-day workshop to learn about manipulating, visualizing, understanding, and analyzing your data in R. R is a programming language coded in the user interface tool, RStudio.

**MAY 15-19 2023**

**Sample Schedule**

**DAY 1**

Introduction to R, RStudio and RMarkdown. The RMarkdown is used for writing reproducible, dynamic reports with R.

**WEEK 10 10, 2020****1:30-4:30 P.M. | MONDAY - FRIDAY****CTSC Conference Room****UNM Health Sciences North Campus**

### Registration - FREE

Open to anyone who works or studies on the HSC campus.



**Register by scanning the QR Code**

**or going to the link:** <https://goto.unm.edu/registration>

*Space provided for 20 in-person participants, others may attend virtually through Zoom.*

Learn how to manage projects in R.

#### DAY 2

Manipulation of data tables

#### DAY 3

Creating publication-quality graphics with **ggplot2**

#### DAY 4

Introduction to logistic regression

#### DAY 5

Making predictions from a logistic regression model



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