

Tkach, Colleen

From: Inform
Subject: EM: [QCL Workshop] Programming Basics with R, Part 1 (9/25 and 9/26) and Part 2 (10/2 and 10/3)

From: Park, Jeho

Dear CMC Students, Faculty and Staff,

We are delighted to offer R beginner's workshops in the next two weeks:

- **Programming Basics with R, Part 1 (Lvl 1)**
 - Session 1: Wednesday, 9/25/2024 at 4:15 pm to 5:45 pm -
 - https://bit.ly/FA24_Rbasicspart1_0925
 - Session 2: Thursday, 9/26/2024 at 4:15 pm to 5:45 pm -
 - https://bit.ly/FA24_Rbasicspart1_0926
 - Location: Online via Zoom (both sessions are identical)
- **Programming Basics with R, Part 2 (Lvl 1)**
 - Session 1: Wednesday, 10/2/2024 at 4:15 pm to 5:45 pm -
 - https://bit.ly/FA24_Rbasicspart2_1002
 - Session 2: Thursday, 10/3/2024 at 4:15 pm to 5:45 pm -
 - https://bit.ly/FA24_Rbasicspart2_1003
 - Location: Online via Zoom (both sessions are identical)

Workshop Summary:

- **Programming Basics with R, Part 1:** You have data and you need a tool to do something with it. Whether you're a data scientist, political scientist, economist, or biologist, it's increasingly apparent that data is ever-present and we need to do a little statistics, a little visualization, and a little manipulation of this data. That is precisely what the programming language R is built for. In this workshop, we will cover the basics of getting started with R and R Studio.

Learning Objectives for Part 1: (You will learn how to)

- Understand the R-Studio environment on the cloud
- Use the console for basic statistics tools
- Produce documents with plots of your data findings

- **Programming Basics with R, Part 2:** Data Exploration is the process of importing, filtering, transforming, and visualizing data to find patterns and get an idea of how to move forward with your data project. It is known that a majority of data analysts and data scientists spend as much as 80% of their time in data exploration. Thus, it is essential to get familiar with good data wrangling and visualization tools that help you save time and avoid errors. In this hands-on workshop, you will learn basic skills to import, export, filter, transform, and visualize data using the well-known data science package called tidyverse.

Learning Objectives for Part 2: (You will learn how to)

- Import and export data

- Filter and transform data with dplyr
- Visualize data with ggplot
- Use basic logical operations

Software Requirements:

- **R programming environment:** We will use the free Posit Cloud; if you don't have the Posit account yet, please create a new account at <https://posit.cloud/>.

Ticket Cancelation and No Show Policy: If you need to cancel your reservation, please contact us by email at gcl@cmc.edu at least 24 hours prior to the event. A prompt cancellation will help us contact the next person on the waitlist. In case of 2 or more no-shows (without cancelation), you will lose your privilege to take our free workshops during the semester.

Loaner Laptops: If you need a loaner laptop, please let us know in advance to reserve a laptop.

Workshop Room Location: A Zoom link will be sent to you once registered.

Workshop Schedule: Please see our workshop schedule and any updates on our website at <https://www.cmc.edu/gcl/workshops>.

I hope to see you at the workshop!

Best,

Jeho Park

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