PRACTICAL DATA MANAGEMENT WITH R

MODULE ONE - INTRODUCTION TO R AND RSTUDIO
- How to install R and RStudio
- Basic R programming skills, such as how to write commands in an R script
- How to understand the core data structures you need to manage a huge variety of data

MODULE TWO: R PROGRAMMING FUNDAMENTALS
- Data I/O and packages so you can extend the functionality of R
- Looping and conditional statements so you can automate wildly complex tasks
- Functions so you don’t have to write the same code over and over again for similar tasks

MODULE THREE: DATA MANAGEMENT IN R
- Manage multiple datasets by example
- Convert long and wide format data
- Deal with poorly formatted data and/or missing data
- Automate tasks using functions
- Work with and manipulate text data

MODULE FOUR: AUTOMATED DATA COLLECTION
- An overview of web/text scraping and the related legal considerations
- A basic web scraping example so you can learn how to treat a webpage as a messy text document
- An understanding of scraping Twitter

MODULE FIVE: PERFORMANCE AND SCALABILITY
- Giving you an overview of big data and high-performance computing (HPC)
- Teaching you about performant programming
- Wrapping up with a range of next steps and ways to extend your skills