**Topic 1: Introduction to R and R Studio**

* How to install R and R Studio?
* What is R?
  + Object-oriented Programming, Polymorphic and Generic functions
  + Functional Programming
* The layout of R studio and the purpose of each section
  + Organization of your R studio
* Script in R
  + Why script?
  + Basics: How to create a script? How to comment in a script? How to run a script.
* Basic Use of R
* Communicating with R (I): Get something for you.
  + Working Directory (How to check or set working director?)
  + Create and List the folders in your directory.
* Communicating with R (II): Conduct Analysis for you.
  + What are Packages or libraries?
  + What are Functions?
  + How to install the packages that such functions belong to?
  + How to load the packages so that you could use such functions?
  + How to call this function?
  + How to find help for a specific function?
* A specific task in R: Input and Read Data
  + Manually input data
  + Read data from external sources
  + Export or Save Data
  + Read Data from other sources (e.g., Yahoo or Twitter)
* An Introduction to R Markdown: Writing Some Beautiful Reports/Presentation Slides
  + How to create an R Markdown file?
  + How to write contents?
  + How to embed R code?
  + How to render/compile an R markdown file?