

Statistics 305/605: Introduction to Biostatistical Methods for Health Sciences

Getting Started with RStudio

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The Stat Workshop

- ▶ Workshop hours and location.
 - ▶ BM office hours are Wed 11:00-noon in the Workshop.

Getting Started with RStudio

- ▶ In Stat305/605,
 - ▶ software demos will be in **RStudio**
 - ▶ RStudio allows you to better organize your work in R.
 - ▶ exercise templates will be in **R Markdown**
 - ▶ R Markdown documents allow you to integrate your written comments with R commands and their output.

What is RStudio?

- ▶ RStudio is a free “integrated development environment” (IDE) for R.
- ▶ Basically it is an interface that makes it easier to work with R and get organized on your computer.

What is R Markdown?

- ▶ R Markdown is a file format for making documents with R.
- ▶ An R Markdown document is written in markdown, a simple plain text format, and allows you to integrate chunks of embedded R commands as well as their output.
- ▶ R Markdown allows you to author documents in file formats such as PDF, Word and HTML.
- ▶ The R-Markdown document interface is available in RStudio. (For Jupyter users, an R Markdown document is like a Jupyter Notebook.)

Getting-Started Videos

- ▶ Below are links to short videos to give a flavour of RStudio and R Markdown:
- ▶ Katie Ann Jager on “Getting Started with RStudio” (time 8:53)
<https://www.youtube.com/watch?v=ikGdOt1WJyo>
- ▶ Roger Marin on “Installing R and R Studio” (time 4:53)
https://www.youtube.com/watch?v=cX532N_XLIs and “What is R Studio” (time 5:20)
<https://www.youtube.com/watch?v=riONFzJdXcs>
- ▶ Roger Peng on “R Markdown with RStudio” (time 6:38)
<https://www.youtube.com/watch?v=DNS7i2m4sB0>
- ▶ Nicolas Horton on “First steps with R Markdown” (time 3:49)
<https://www.youtube.com/watch?v=w4hLT7WyjnM>
- ▶ Watch these on your own.

R Resources on the course canvas page

- ▶ This overview on R/RStudio options for the course.
- ▶ Note that the overview links to material on getting started in R/RStudio.