

Introduction to R

Instructor

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Syllabus

[R](#) is a free and open source package of statistical software, and a powerful multi-purpose tool for analyzing and graphing all manner of data. Since the release of version 1.0 in 2000, R has proliferated widely, supplanting the expensive proprietary alternatives such as SAS and STATA in many academic departments and making inroads in the industrial and government sectors.

This three hour workshop is a demonstration of, and introduction to, the basic functionality of R, using the also-free [RStudio](#) user interface. The target audience is people who have no previous experience with R, but have at least a small amount of previous experience with data analysis in some other program, such as Excel or STATA.

The workshop will cover three main topics,

- features of RStudio, elementary R language syntax, and the help system;
- loading and formatting data;
- graphing data.

Time permitting, we may also discuss basic statistical analyses such as the linear model, or take audience suggestions for additional topics.

At the end of the workshop, attendees will have an overview of the capabilities of the R system, where they can go to learn more about R, and have the ability to start using R with their data to produce publication quality plots and graphs.