

CSDA Fall 2016 Workshop

Introduction to R

Instructor: Matthew C. Ingram, JD, PhD
Assistant Professor, Department of Political Science
University at Albany, SUNY

Date: Friday, September 30, 2016

Time: 1:00 pm - 4:00 pm

Location: ASO13 (Arts & Sciences Building– Basement Level – Main Campus)

R is a language and environment for statistical computing and graphics and an open source application gaining popularity. This workshop offers a quick, basic, and applied introduction to data analysis in R. It is intended for new users of R, but others are welcome.

Some background information, for example, the broader professional benefits, will be covered. In addition, the instructor will also use some real data to illustrate a typical production process or workflow consisting of the following key steps:

(1) working in scripts; (2) setting up working environment (working directory, packages, libraries, workspace); (3) loading data into R (from diverse formats and sources); (4) exploratory and descriptive analysis in R (objects, data types, summaries, histograms, cross-tabulations, correlations); (5) basic linear regression in R, including outputting results to other formats (e.g., .txt, .csv).

Topics such as good practices in R (e.g., scripts, workspaces, commenting code), finding help, examining and adjusting source code, and additional resources beyond this basic course will be discussed as well.

Attendees are encouraged to bring their laptops. If you do so, please have the latest version of R and RStudio downloaded and installed on your machine.

R is available here: <https://cran.r-project.org/>

RStudio is available here: <https://www.rstudio.com/products/rstudio/download/>

Register at: <http://csda.cas.albany.edu/workshop-registration-2/>

Please note that the room only seats 24, so please register promptly.