



## Data Display for Statistical Analysis with R

R is an open source programming language and software environment for statistical computing and graphics. It is a popular tool for statistical analysis tasks and working with “big data”.

Graphs are often the output of data analysis – because graphs provide the best means of communication between the data analyst and the client. The principles of good graphs will be discussed and shown why they are important for communication between the data analyst and the client. This talk is based on work in R done by the author over the past 30 years whose genesis was a sabbatical leave to work at Bell Labs. The talk will show the analysis philosophy at Bell Labs at the time the language was designed, discuss how that philosophy is reflected in the structure of the language, and explain the software interface to the analysis and graphical procedures in the language.

**Richard M. Heiberger** is Professor Emeritus of Statistics in the Fox School at Temple University. His primary research area is statistical computing, with emphasis in linear models, statistical graphics, and software design. He teaches graduate courses in statistical methodology, statistical computing, and design of experiments, and supervises doctoral dissertations in Statistics. Professor Heiberger has co-authored the graduate-level textbook *Statistical Analysis and Data Display: An Intermediate Course with Examples in R, second edition*. He is also a co-author of the book *R through Excel: A Spreadsheet Interface for Statistics, Data Analysis, and Graphics*. He received his B.A. from Oberlin College and his Ph.D. in Statistics from Harvard University. He is an elected Fellow of the American Statistical Association and was the 2011 Chair of the ASA Section on Statistical Computing.

Date: Thursday, April 20, 2017, 8:00 pm.  
(Refreshments and networking at 7:30 pm.)  
Place: Small Auditorium, Room CS 105  
Computer Science Building, Princeton University  
Information: Dennis Mancl (908) 285-1066  
On-line info: <http://PrincetonACM.acm.org>

All Princeton ACM / IEEE-CS meetings are open to the public. Students and their parents are welcome. There is no admission charge, and refreshments are served.

A pre-meeting dinner is held at 6:00 p.m. at Ruby Tuesday’s Restaurant on Route 1. Please send email to [princetonacm@gmail.com](mailto:princetonacm@gmail.com) in advance if you plan to attend the dinner.

