ABSTRACT:
The R language has become the 'lingua franca' of statistical computing research and is now the foremost language for graphics and data analysis in many other fields. Nonetheless many R programmers hit the wall when working with large data sets and/or complex algorithms, especially if the calculations cannot be easily vectorized.

I will discuss two recent projects, Rcpp and Julia, that, like R, allow for fast code development and testing but produce functions that can handle large data and complex algorithms. Rcpp (rcpp.org) is an interface between R and C++. It is now supported by RStudio (rstudio.com) and has become the preferred way of writing compiled code to be called from R. Julia (julialang.org) is a new language that can be considered as "R (or Matlab) on steroids".

TITLE:
Beyond R: Rcpp and Julia

SPEAKER:
Douglas Bates
Professor Emeritus
Department of Statistics
UW-Madison

TIME & PLACE:
Wednesday, February 6, 2013
Room 140 Bardeen
4:00-5:00p

Cookies & Coffee @ 3:30 in Rm 1210 MSC