**Installing nloptr**

**For Windows:**

I was able to make this work in the Virtual Lab (Windows 7).

1. Download and unzip the 64 bit version (I didn’t try the 32 bit) from here: <http://ab-initio.mit.edu/wiki/index.php/NLopt_on_Windows>
2. Rename the folder something simple like nlopt and put it in a convenient location
3. Set an environment variable called NLOPT\_HOME with the complete path to the directory. If you don’t know how to set an environment variable, then Google is your friend (‘windows 7 environment variable’).
4. Download and run the appropriate version of Rtools.exe from here: <https://cran.r-project.org/bin/windows/Rtools/index.html> (in the virtual lab it is Rtools31.exe)
5. From within R do install.packages(‘nloptr’)

**For Mac:**

1. Download and compile NLopt (if you run into compiler problems that is beyond the scope of what I can help with, I had no trouble). I followed the Download and Installation instructions for linux that are near the top of the page here: <http://ab-initio.mit.edu/wiki/index.php/NLopt>
2. From within R do install.packages(‘nloptr’)