

The computer lab is in **Neckers 258** (2 doors from my office). Hopefully, R is on most of the computers, especially computers 11–25, and the computers in the back part of the lab. The lab is open **8:30 - 4:30** MTuWThF. You can get the lab opened by me or someone in the main Math Office Neckers 360. Certain hours are reserved, check at the door. The lab is not open on weekends, holidays or final exam week.

The computer on button is in the upper left corner while the monitor on button is in the lower right corner. You may need to press a computer keyboard key to get the login and password bars to appear. The computer lab login is like logging into salukinet: If necessary, hit Ctrl, enter your

AD\siu8... (dawg tag) and your password. The first time you login to a computer may take 10 minutes. The next times should be much faster.

Click the lower left icon to see programs in the icons Window. You can click on the desktop icon to escape. If you click on something and can't get out of the information window, there is a Windows key that looks like 4 rectangles and is on the lower left of the keyboard near the Ctrl key. This Windows key can get you back to icons Windows.

R is free software available from (<https://cran.r-project.org/>). Click the internet icon and search for David Olive. His personal page (<http://parker.ad.siu.edu/Olive/Personal.html>) has a Links for Students which has information on Math 282. R code for Math 282 homework (HW) is on this page and at (<http://parker.ad.siu.edu/Olive/M282Rhw.txt>). Having a flashdrive to save R output may be useful.

There should be an R or Rgui icon on the screen. If not, left click the lower left icon, or near the lower left icon, search for R . You may need to change computers if you do not see the R or Rgui icon. To get out of R , move your cursor to the “x” in the NE (north east or upper right) corner of the screen. When asked whether to save changes, click on “no.” Typing $q()$ also gets you out of R .

Feel free to get help from other students. I would be grateful if knowledgeable students would give help to students having trouble. Since my office is next door, feel free to get help from me.

$help(fn)$ and $args(fn)$ give information about function fn , eg if $fn = lsfit$. For the cars data set, $x =$ speed in mph of the car and $Y =$ stopping distance of the car.

```
x<-cars[,1]
y<-cars[,2]
out <- lsfit(x,y)
ls.print(out)
Residual Standard Error=15.3796
R-Square=0.6511
F-statistic (df=1, 48)=89.5671
p-value=0
      Estimate Std.Err t-value Pr(>|t|)
Intercept -17.5791  6.7584 -2.6011  0.0123  #a=-17.5791
X          3.9324  0.4155  9.4640  0.0000  #b=3.9394
```

To put a graph or output in “Word”, hold down the *Ctrl* and *c* buttons simultaneously. Then in the *Word*, press *Ctrl* and *v* to paste the commands into R .