

Kriging2

```
setwd("C:/Wu/Geostat2018Fall/Class14_10242018/")
all <- read.csv("barn.csv", header=TRUE)
library(gstat)
library(sp)
coordinates(all) <- ~ East+North
bubble(all, "pH")
spplot(all,"pH")
var1 <- variogram(pH ~ 1, all)
plot(var1)
vgm1 <- vgm(0.35, "Exp", 2, 0.05)
var1.fit1 <- fit.variogram(var1, vgm1)
plot(var1, var1.fit1)
var1.fit1

data.grid <- expand.grid(x=seq(8.5,8.5,0), y=seq(10.5,10.5,0))
names(data.grid) <- c("X", "Y")
coordinates(data.grid) <- ~X+Y
krig1 <- krige(pH ~ 1, all, data.grid, model=var1.fit1)

krig1["var1.pred"]
krig1["var1.var"]

sink("weight/weight1.txt")
krig1 <- krige(pH ~ 1, all, data.grid, model=var1.fit1, debug.level=32)
sink()
```