

04_Correlación.R

Usuario

2023-10-03

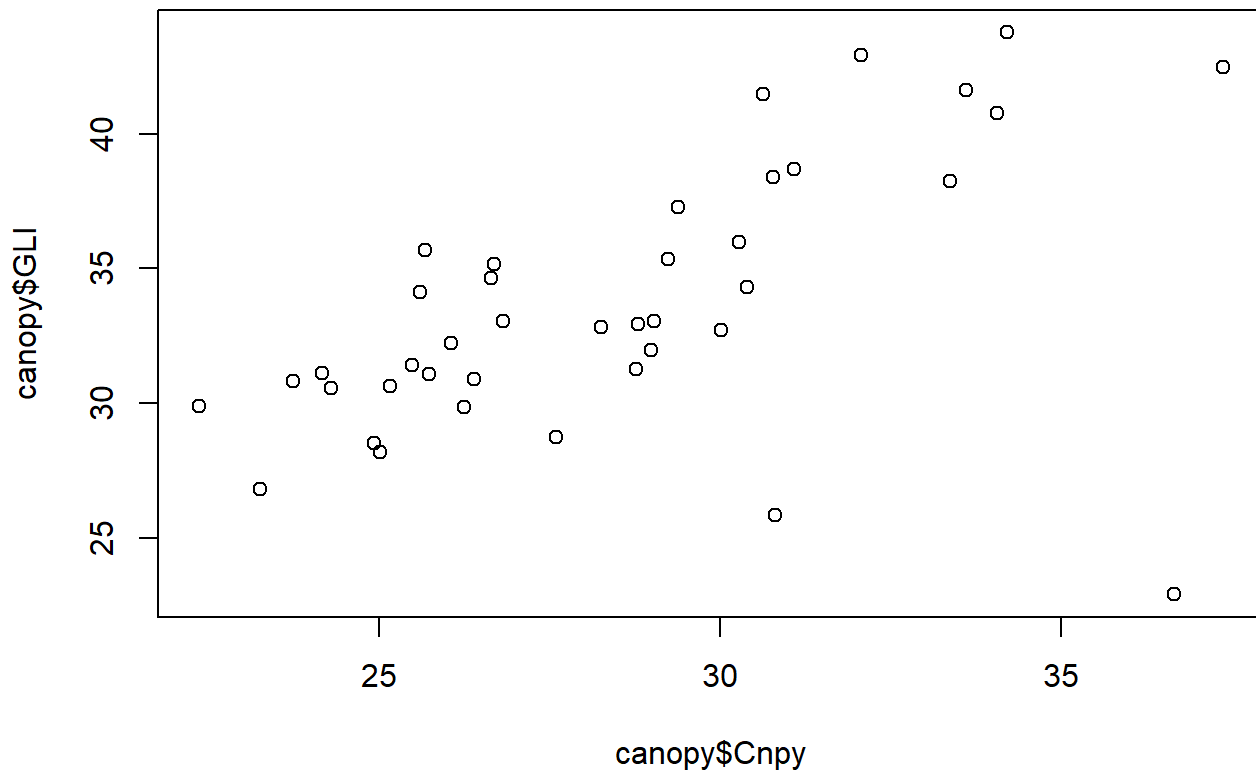
```
# Diego David Flores Cadena  
# 25/09/2023  
# Matricula: 2070509
```

```
# Importar -----
```

```
setwd("C:/Repositorio_GIT_DiegoFlores/Met.ES/Codigos")  
canopy<-read.csv("canopy.csv",header = T)  
canopy$Forest<-as.factor(canopy$Forest)
```

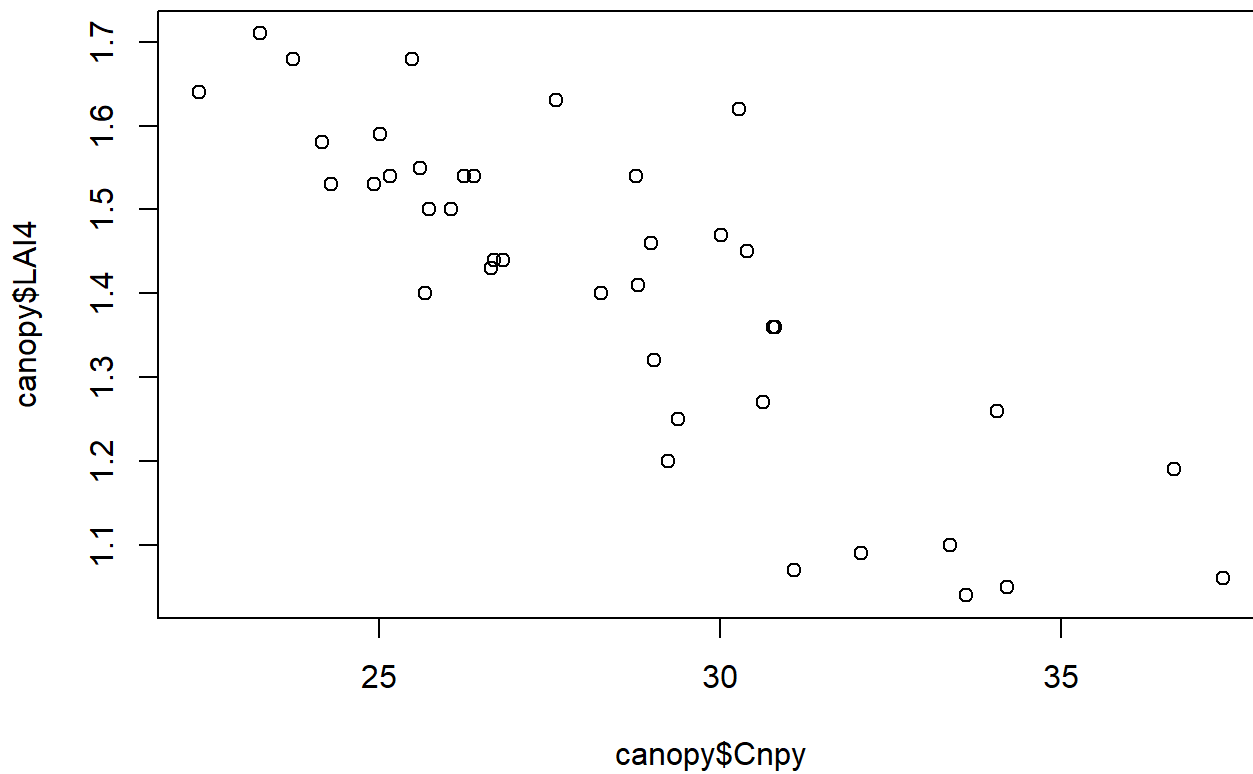
```
# Gráfica -----
```

```
plot(canopy$Cnpy, canopy$GLI)
```



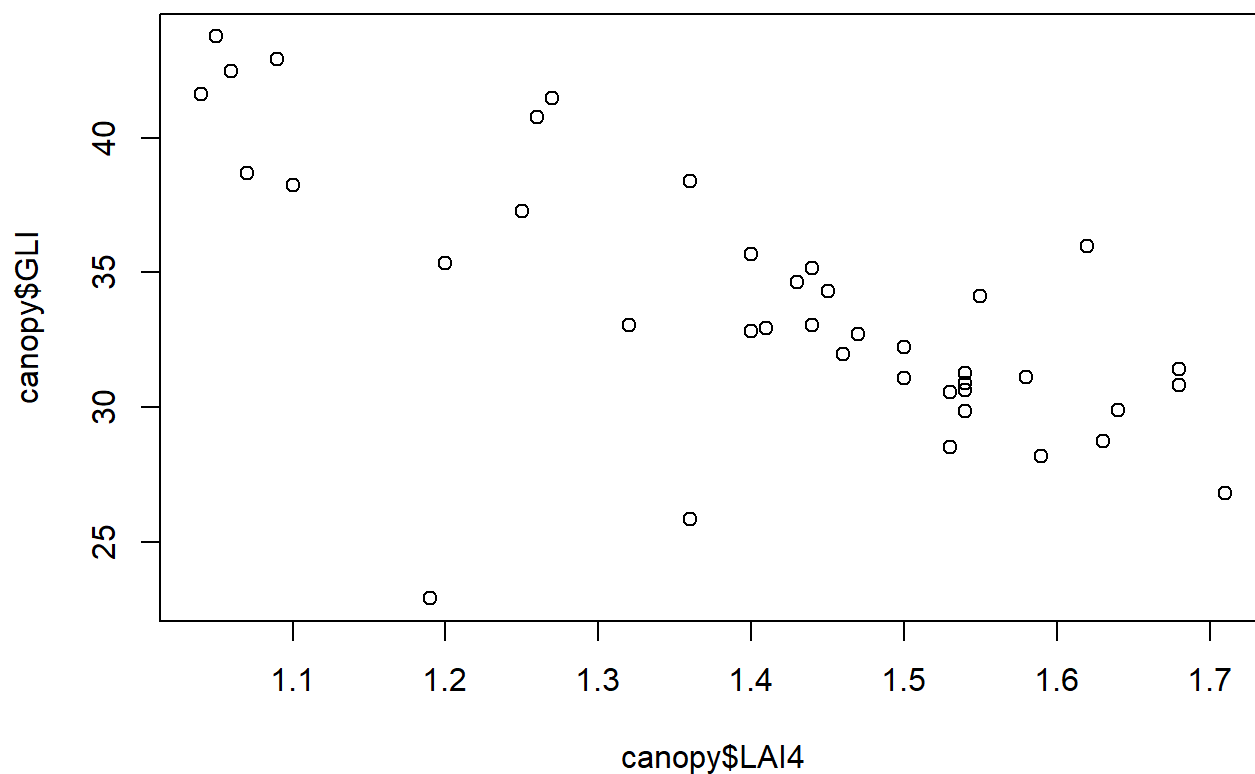
```
#Asociacion positiva
```

```
plot(canopy$Cnpy, canopy$LAI4)
```



```
#Asociacion negativa
```

```
plot(canopy$LAI4, canopy$GLI)
```



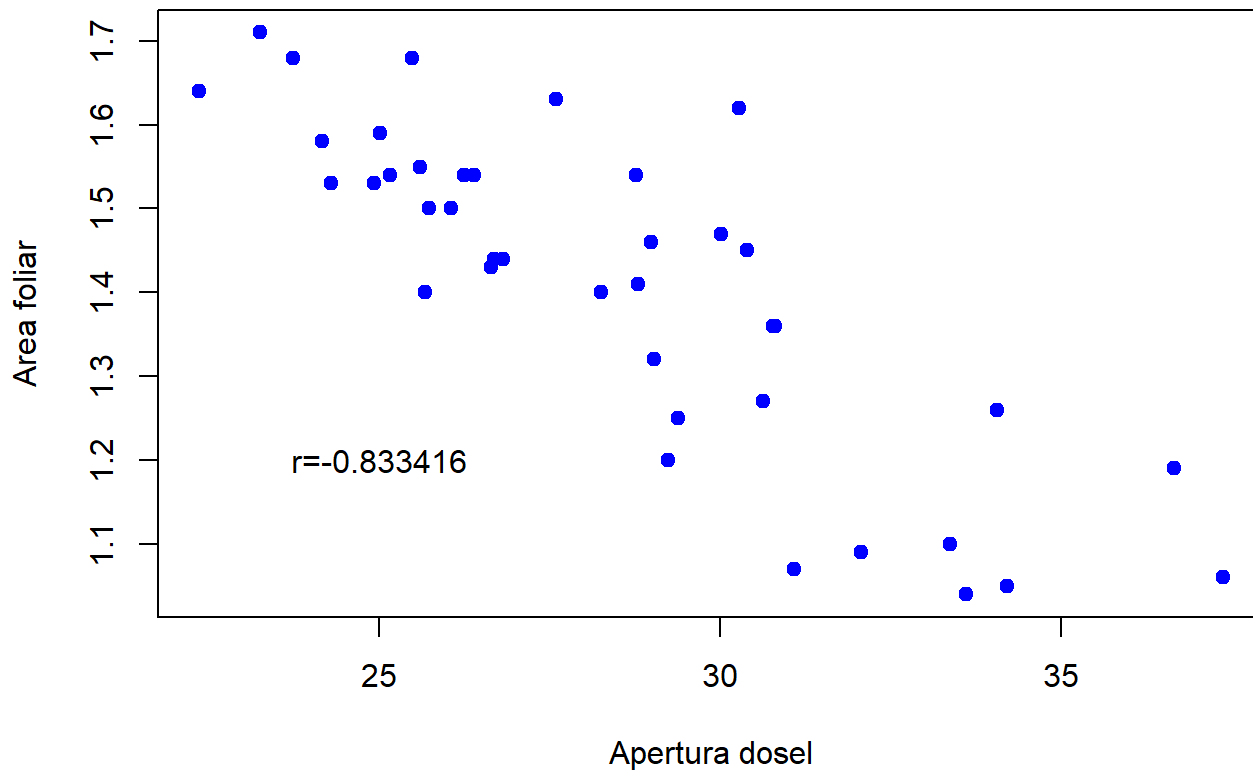
```
#Asociacion negativa
```

```
# Personalizar -----
```

```
plot(canopy$Cnpy, canopy$LAI4, xlab = "Apertura dosel", ylab = "Area foliar",
      col="blue", pch=19)
cor.test(canopy$Cnpy, canopy$LAI4)
```

```
##
## Pearson's product-moment correlation
##
## data: canopy$Cnpy and canopy$LAI4
## t = -9.2962, df = 38, p-value = 2.493e-11
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.9089473 -0.7049143
## sample estimates:
## cor
## -0.833416
```

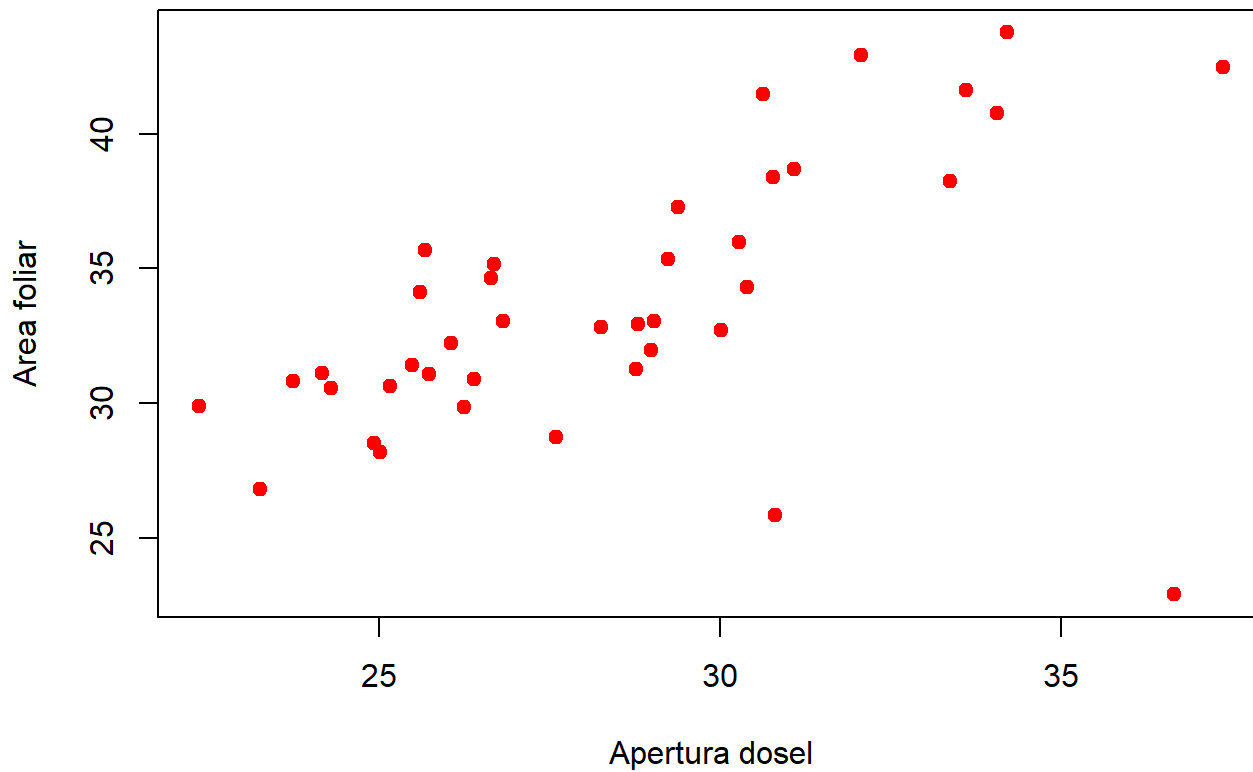
```
text(25,1.2, "r=-0.833416")
```



```
plot(canopy$Cnpy, canopy$GLI, xlab = "Apertura dosel", ylab = "Area foliar",
     col="red", pch=19)
cor.test(canopy$Cnpy, canopy$GLI)
```

```
##
## Pearson's product-moment correlation
##
## data: canopy$Cnpy and canopy$GLI
## t = 4.0149, df = 38, p-value = 0.0002702
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.2822213 0.7326972
## sample estimates:
##      cor
## 0.5457512
```

```
text(25,1.2, "r=0.5457512")
```



```
plot(canopy$LAI4, canopy$GLI, xlab = "Apertura dosel", ylab = "Area foliar",
     col="yellow", pch=19)
cor.test(canopy$LAI4, canopy$GLI)
```

```
##
## Pearson's product-moment correlation
##
## data: canopy$LAI4 and canopy$GLI
## t = -5.8669, df = 38, p-value = 8.669e-07
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.8239664 -0.4812537
## sample estimates:
## cor
## -0.6894101
```

```
text(25,1.2, "r=-0.6894101")
```

