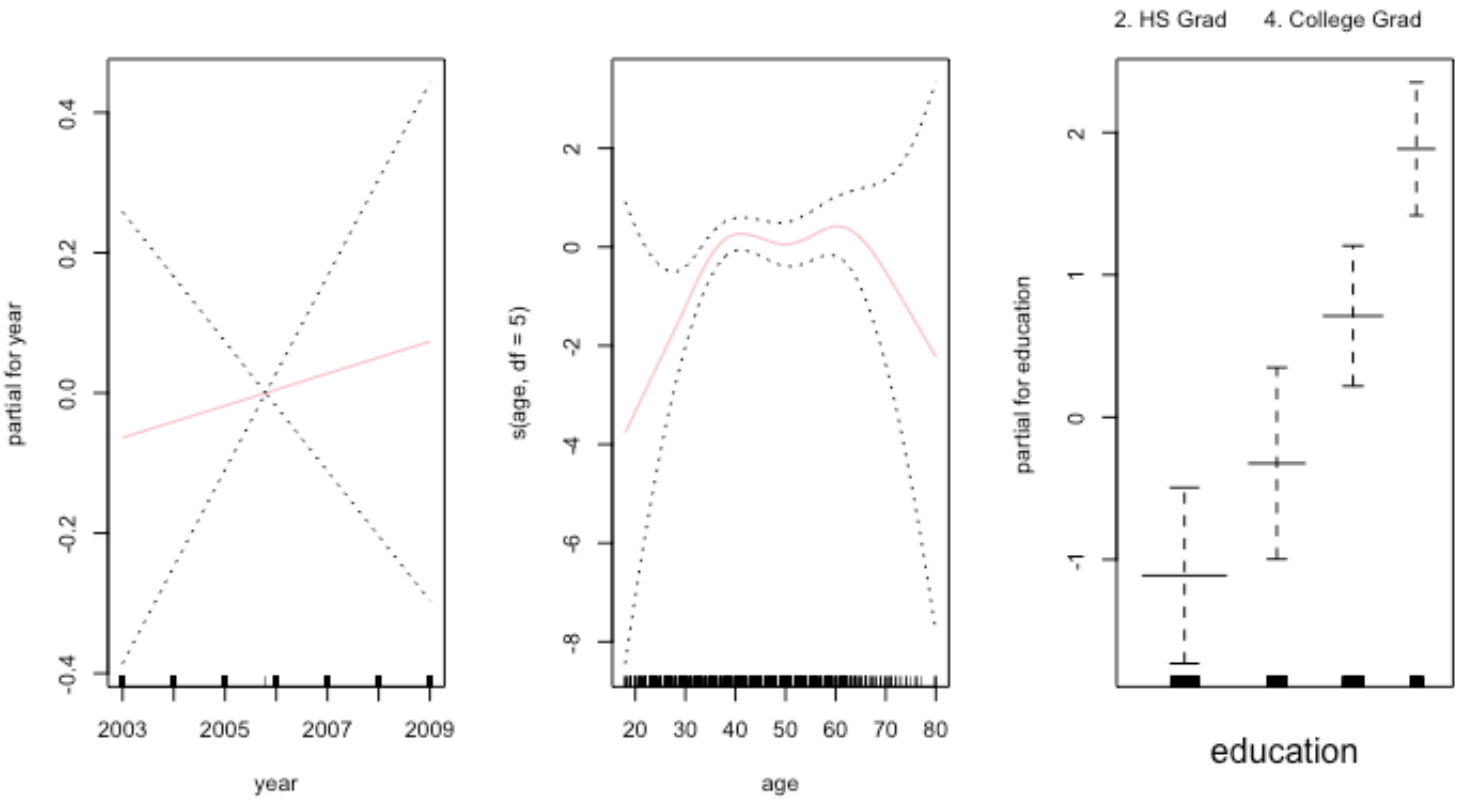


# Take-home questions

```
m1 = gam(I(wage>250)~year+education,family=binomial,data=Wage,
       subset=(education!="1. < HS Grad") )

m2 = gam(I(wage>250)~year+age+education,family=binomial,data=Wage,
       subset=(education!="1. < HS Grad") )

m3 = gam(I(wage>250)~year+s(age,2)+education,family=binomial,data=Wage,
       subset=(education!="1. < HS Grad") )

m4 = gam(I(wage>250)~year+s(age,5)+education,family=binomial,data=Wage,
       subset=(education!="1. < HS Grad") )

m5 = gam(I(wage>250)~year+s(age,8)+education,family=binomial,data=Wage,
       subset=(education!="1. < HS Grad") )

anova(m1, m2, m3, m4, m5, test="F")
```