

# R Notebook

This is an R Markdown Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter*.

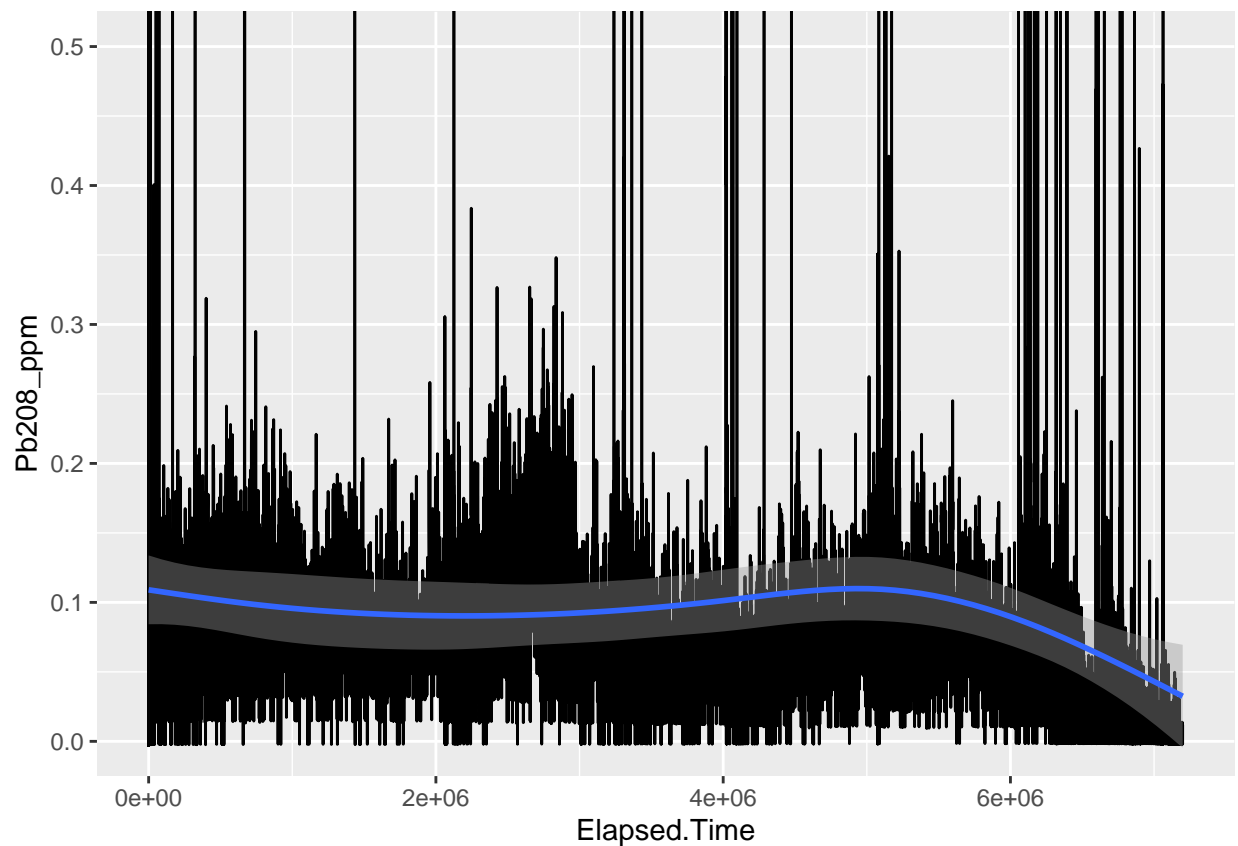
```
Lead_Profile <- read.csv("~/EER Year 1/Fall 2021/ICP-MS/Pb Profile.csv")
```

```
require(ggplot2)
```

```
## Loading required package: ggplot2
```

```
ggplot(Lead_Profile, aes(x=Elapsed.Time, y=Pb208_ppm))+ geom_line() +coord_cartesian(ylim=c(0,0.5))+geom
```

```
## 'geom_smooth()' using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```



```
require(signal)
```

```
## Loading required package: signal
```

```
## Warning: package 'signal' was built under R version 4.0.5
```

```
##
```

```
## Attaching package: 'signal'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
## filter, poly
```

```
sg <-sgolay(p=5, n=51,m=0) #Parameters choosen on just a visual basis  
Lead_Profile$sg <- filter(sg,Lead_Profile$Pb208_ppm)
```

```
require(ggplot2)
```

```
ggplot(Lead_Profile, aes(x=Elapsed.Time, y=Pb208_ppm))+  
  geom_line(aes(x=Elapsed.Time,y=sg),) +  
  #geom_line(aes(x=Elapsed.Time,y=Pb208_ppm),colour="red")+  
  coord_cartesian(ylim=c(0,0.2))+  
  geom_smooth(se=TRUE)+  
  theme_bw()
```

```
## 'geom_smooth()' using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```

