# DanielPonikowski\_PD1

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```
options(stringsAsFactors = FALSE)
library(readstata13)
library(dplyr)
library(caret)
library(ggplot2)
data <- read.dta13(file = "HCMST 2017 fresh sample for public sharing draft v1.1.dta")
Wybrane zmienne:
+ ppwork - aktualny status zatrudnienia
+ w6_q20 - czy obecnie mieszkasz z partnerem?
+ Q21A_Year - w ktorym roku pierwszy raz spotkałes partnera?
+ ppage - wiek
df <- data[,c("S1","ppwork","w6_q19","Q21A_Year","ppage")]</pre>
df <- df %>% mutate(Q21A_Year = as.numeric(as.character(Q21A_Year))
                     ,ppwork = factor(ppwork)
                     ,w6_q19 = factor(w6_q19)
                     ,ppage = as.numeric(ppage)
                     ,S1= factor(S1)) %>%
 na.omit() %>% unique() %>% as.data.frame()
control <- trainControl(method = "cv", number=10, search = "random")</pre>
metric <- "Accuracy"</pre>
RF <- train(df[2:5],df$S1 ,method = "rf", metric = metric,</pre>
```

#### Reczne narysowanie wykresu ceteris paribus dla losowej osoby.

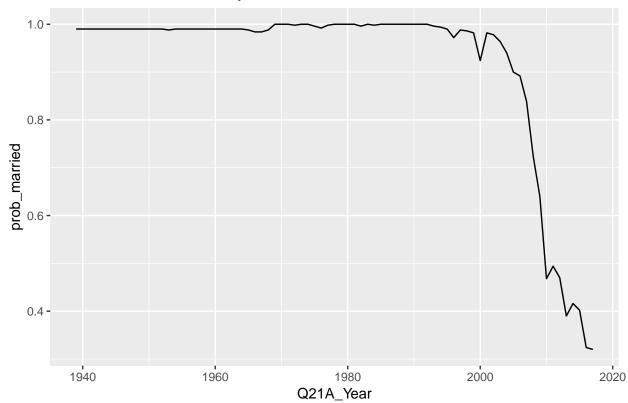
Najpierw wylosuje osobe dla ktorej bedziemy rysowac wykresy.

trControl = control)

#### Zmienna Q21A\_Year

```
ggplot(df_Q21A_Year,aes(x = Q21A_Year,y = prob_married)) + geom_line() +
ggtitle("Ceteris Paribus zmiennej Q21A_Year")
```

## Ceteris Paribus zmiennej Q21A\_Year



### Zmienna ppage

