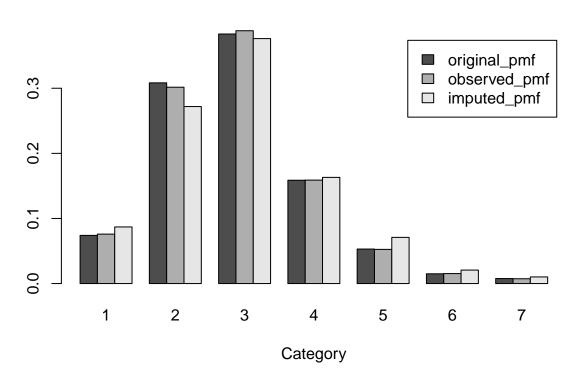
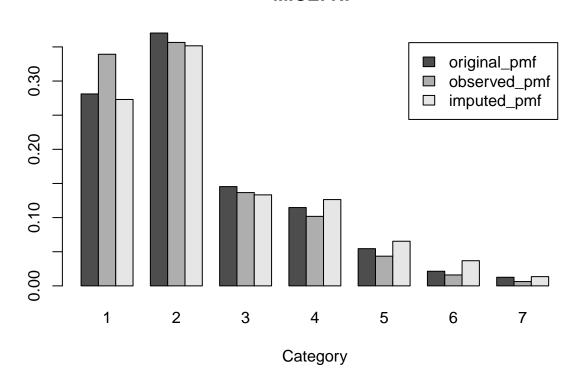
MAR 45% missing - RandomForest

```
# sample MCAR dataset from PUMS
source("../../utils/sampleMAR45.R")
n = 10000
missing_col = c(1,3,7,9,10,11)
set.seed(3)
output_list <- sampleMAR45(n)</pre>
df <- output_list[['df']]</pre>
df_observed <- output_list[['df_observed']]</pre>
apply(is.na(df_observed), MARGIN = 2, mean)
                            RMSP
                                     ENG MARHT
                                                   SCHL RACNUM
## 0.4456 0.0000 0.3998 0.0000 0.0000 0.0000 0.4842 0.0000 0.4670 0.4478 0.4384
missForest
df.imp <- missForest(df_observed, verbose = FALSE)</pre>
d1 <- df.imp$ximp</pre>
df.imp <- missForest(df_observed, verbose = FALSE)</pre>
d2 <- df.imp\sximp
df.imp <- missForest(df_observed, verbose = FALSE)</pre>
d3 <- df.imp$ximp
df.imp <- missForest(df_observed, verbose = FALSE)</pre>
d4 <- df.imp$ximp
df.imp <- missForest(df_observed, verbose = FALSE)</pre>
d5 <- df.imp$ximp
imputed_sets = rbind(d1, d2, d3, d4, d5)
Diagnostics
Assess bivariate joint distribution
Assess trivariate joint distribution
## [1] "rmse"
## [1] 0.2831024
```

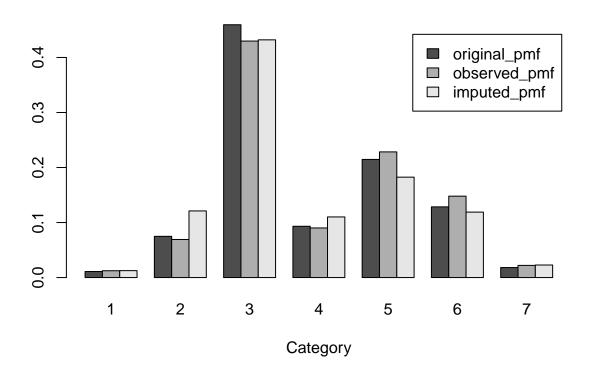
MICE: VEH



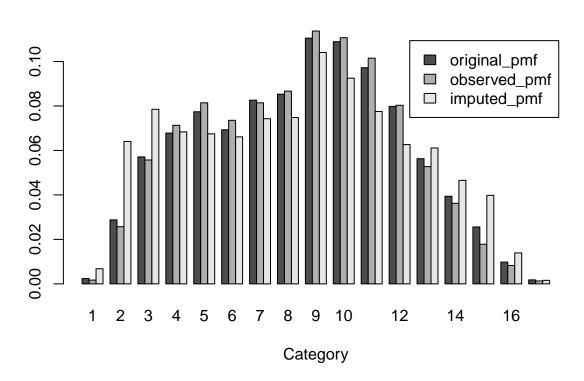
MICE: NP



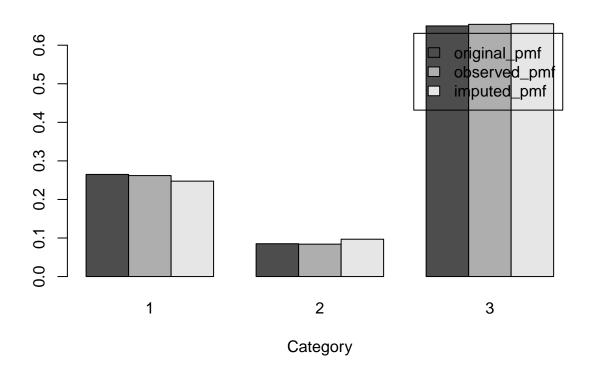
MICE: SCHL



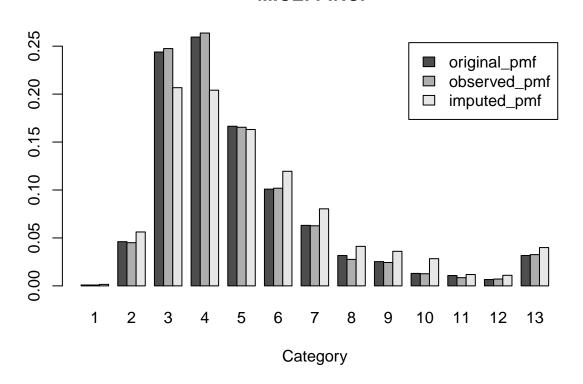
MICE: AGEP



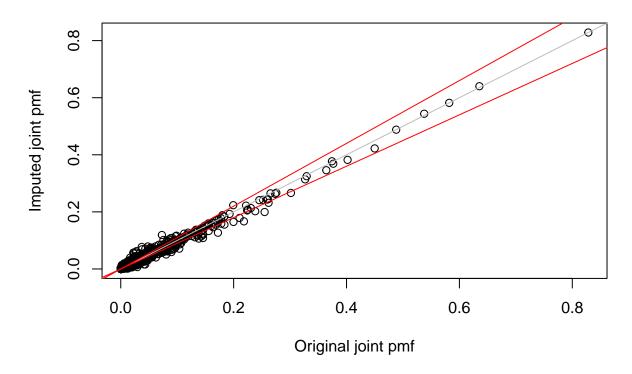
MICE: WKL



MICE: PINCP



Bivariate pmf



Trivariate pmf

