```
Call:
```

 $lm(formula = log(wage) \sim educ + I(educ^2) + exper + I(exper^2) +$ I(educ * exper), data = cps5_small)

Residuals:

10 Median **30** Max -1.6628 -0.3138 -0.0276 0.3140 2.1394

Coefficients:

Estimate Std. Error t value Pr(>|t|)3.764 0.000175 *** (Intercept) 1.038e+00 2.757e-01 educ 8.954e-02 3.108e-02 2.881 0.004038 ** I(educ^2) 1.458e-03 9.242e-04 1.578 0.114855 4.488e-02 7.297e-03 6.150 1.06e-09 *** exper -4.680e-04 7.601e-05 -6.157 1.01e-09 *** I(exper^2) I(educ * exper) -1.010e-03 3.791e-04 -2.665 0.007803 **

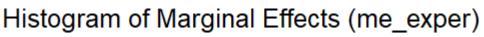
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

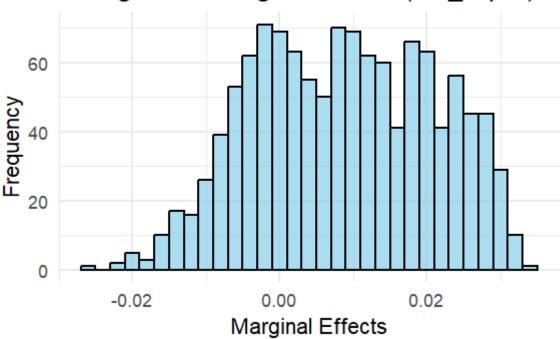
Residual standard error: 0.4638 on 1194 degrees of freedom Multiple R-squared: 0.3227, Adjusted R-squared: 0.3198 F-statistic: 113.8 on 5 and 1194 DF, p-value: < 2.2e-16

(c)

Histogram of Marginal Effects (me_educ) 60 Frequency 05 07 0 0.09 0.12 0.03 0.06 0.15 Marginal Effects

Minimum Percentile_5 Percentile_95 Median Maximum Std Dev 0.1073483 0.1084313 0.1478705 0.03565419 0.08008187 0.1336188 0.01722176 -0.4066173 Kurtosis Jarque_Bera_Stat Jarque_Bera_p_value 34.20008 3.745819e-08





Mean Median Maximum Minimum Percentile_5 Percentile_95 Std_Dev Skewness 0.008651732 0.008418878 0.03398886 -0.02527874 -0.01037621 0.02793115 0.01216966 -0.04659748 Kurtosis Jarque_Bera_Stat Jarque_Bera_p_value 2.123526 38.84459 3.672862e-09