Rich Gruss

In-Class 8-3

setwd('/Users/rgruss/git/CMDA/in\_class/8')

load("fdata.RData")

attach(final)

model <- lm(ssc ~ som1 + som2 + som3 + som4 + som5 + som6 +

som7 + som8 + som9 +som10 + som11 + som12 +som13 + som14 +

age)

Residuals:

Min 1Q Median 3Q Max

-4.0846 -0.9373 -0.2395 0.8615 5.1013

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 0.930604 0.501616 1.855 0.064525 .

som1 0.204283 0.062278 3.280 0.001157 \*\*

som2 0.326182 0.064194 5.081 6.53e-07 \*\*\*

som3 0.243625 0.033742 7.220 4.11e-12 \*\*\*

som4 0.153274 0.046042 3.329 0.000978 \*\*\*

som5 0.166983 0.071151 2.347 0.019566 \*

som6 0.074954 0.083424 0.898 0.369641

som7 0.100937 0.081050 1.245 0.213947

som8 -0.009423 0.176722 -0.053 0.957510

som9 0.123674 0.089830 1.377 0.169593

som10 0.250056 0.073577 3.399 0.000767 \*\*\*

som11 0.179763 0.087164 2.062 0.040015 \*

som12 0.204114 0.059449 3.433 0.000678 \*\*\*

som13 0.403307 0.046264 8.717 < 2e-16 \*\*\*

som14 0.197416 0.054433 3.627 0.000336 \*\*\*

age -0.010667 0.016660 -0.640 0.522476

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 1.533 on 307 degrees of freedom

Multiple R-squared: 0.7923, Adjusted R-squared: 0.7822

F-statistic: 78.08 on 15 and 307 DF, p-value: < 2.2e-16

Interpretation: R-squared of .7 indicates that 70% of the variance is explained in a linear model that includes all 14 somatic markers along with age. The most important explanatory variables for the ssc scores are som13, som3, and som2, each of which is positively related to ssc score.