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Inro Stats – March 22nd, 2021

Exam 3

1. Dummy variable for female where female =1 and for 2015 where 2015 =1
   1. Y-hat = betazero + betafemaleX1 + beta2015 X2 + (betafemaleX1)( beta2015X2)
   2. Woman in 1995 = 15.7/ Woman in 2015 = 21.3
   3. Gender gap in 1995 = 53.3//Gender gap in 2015 = 22.4
   4. Subgroup = Men in 1995
   5. Y-hat = betazero +betafemaleX1 + beta2015X2 + (betafemaleX1)( beta2015X2) + (betafemaleX1)( beta2015X2)(betaDsome col3) + (betafemaleX1)(beta2015X2)(betaDhigher4)//Focused on coefficient of last two interaction terms
2. If family income is a confounder, then it is likely that the claimed relationship is actually a spurious relationship between quality of childhood schooling and adult probability of employment – meaning that the relationship between the two would disappear if family income was controlled for
   1. Qual. of Childhood Ed Adult Unemployment

Family Income

* 1. A possible state level confounder could be state levels of unemployment. Thus, without controlling for state-specific levels of unemployment, it would not be possible to say that quality of education affects unemployment in certain ways across all people in all states.